

## Nuclide Analysis Results of Fish and Shellfish (The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 1/10 >

(Data summarized on January 18)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Schlegel's black rockfish (Muscle)	Around 1km Offshore of Ota River (T-S1)	December 20, 2012	170	310	480
Common skete (Muscle)	Around 1km Offshore of Ota River (T-S1)	December 20, 2012	64	120	184
Ovalipes unctatus (Whole)	Around 1km Offshore of Ota River (T-S1)	December 20, 2012	4.5	9.2	13.7
Flatfish (Muscle)	Around 1km Offshore of Ota River (T-S1)	December 20, 2012	13	30	43
Greenling (Muscle)	Around 3km Offshore of Odaka Ward (T-S2)	December 20, 2012	29	53	82
Stingray (Muscle)	Around 3km Offshore of Odaka Ward (T-S2)	December 20, 2012	5.0	15	20
Lophius litilon (Whole)	Around 3km Offshore of Odaka Ward (T-S2)	December 20, 2012	ND	ND	ND
Snailfish (Muscle)	Around 3km Offshore of Odaka Ward (T-S2)	December 20, 2012	ND	ND	ND
Sea raven (Muscle)	Around 3km Offshore of Odaka Ward (T-S2)	December 20, 2012	81	140	221
Common skete (Muscle)	Around 3km Offshore of Odaka Ward (T-S2)	December 20, 2012	46	71	117

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. 3.8Bq/kg (Raw), Cs-137: Approx. 4.1Bq/kg (Raw)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

\* Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc.

**Nuclide Analysis Results of Fish and Shellfish**  
**(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 2/10 >**

(Data summarized on January 18)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Microstoms achne (Muscle)	Around 3km Offshore of Odaka Ward (T-S2)	December 20, 2012	31	69	100
Flatfish (Muscle)	Around 3km Offshore of Odaka Ward (T-S2)	December 20, 2012	28	42	70
Marbled sole (Muscle)	Around 3km Offshore of Odaka Ward (T-S2)	December 20, 2012	24	49	73
Blue crab (Whole)	Around 4km Offshore of Kumagawa (T-S8)	December 17, 2012	ND	ND	ND
Angel shark (Muscle)	Around 4km Offshore of Kumagawa (T-S8)	December 17, 2012	62	110	172
Lophius litilon (Whole)	Around 4km Offshore of Kumagawa (T-S8)	December 17, 2012	ND	4.8	4.8
Snailfish (Muscle)	Around 4km Offshore of Kumagawa (T-S8)	December 17, 2012	ND	ND	ND
Common skete (Muscle)	Around 4km Offshore of Kumagawa (T-S8)	December 17, 2012	70	120	190
Flatfish (Muscle)	Around 4km Offshore of Kumagawa (T-S8)	December 17, 2012	36	73	109
Sea robin (Muscle)	Around 4km Offshore of Kumagawa (T-S8)	December 17, 2012	16	33	49

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. 4.6Bq/kg (Raw), Cs-137: Approx. 4.0Bq/kg (Raw)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

\* Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc.

**Nuclide Analysis Results of Fish and Shellfish**  
**(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 3/10 >**

(Data summarized on January 18)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Smooth dogfish (Muscle)	Around 4km Offshore of Kumagawa (T-S8)	December 17, 2012	ND	5.8	5.8
Marbled sole (Muscle)	Around 4km Offshore of Kumagawa (T-S8)	December 17, 2012	6.7	17	23.7
Octopus dofleini (Muscle)	Around 4km Offshore of Kumagawa (T-S8)	December 17, 2012	ND	ND	ND
Roundnose flounder (Muscle)	Around 4km Offshore of Kumagawa (T-S8)	December 17, 2012	22	37	59
Greenling (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	December 21, 2012	6.9	13	19.9
Stone flounder (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	December 21, 2012	13	24	37
Black scraper (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	December 21, 2012	ND	ND	ND
Lepidotrigla microptera (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	December 21, 2012	ND	8.5	8.5
Gnathophis nystromi nystromi (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	December 21, 2012	4.5	14	18.5
Sea bass (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	December 21, 2012	13	22	35

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. 5.2Bq/kg (Raw), Cs-137: Approx. 3.9Bq/kg (Raw)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

\* Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc.

**Nuclide Analysis Results of Fish and Shellfish**  
**(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 4/10 >**

(Data summarized on January 18)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Crimson sea bream (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	December 21, 2012	ND	4.1	4.1
Microstoms achne (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	December 21, 2012	6.1	14	20.1
Flatfish (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	December 21, 2012	6.2	11	17.2
Yellowtail (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	December 21, 2012	ND	ND	ND
Common horse mackerel (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	December 21, 2012	ND	ND	ND
Common Japanese conger (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	December 21, 2012	5.4	8.6	14
Littlemouth flounder (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	December 21, 2012	7.0	12	19
Marbled sole (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	December 21, 2012	7.1	20	27.1
Roundnose flounder (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	December 21, 2012	6.6	13	19.6
Ridged-eye flounder (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	December 21, 2012	6.7	11	17.7

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. 4.5Bq/kg (Raw), Cs-137: Approx. 4.4Bq/kg (Raw)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

\* Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc.

Nuclide Analysis Results of Fish and Shellfish  
(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 5/10 >

(Data summarized on January 18)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Striped jewfish (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	December 21, 2012	ND	ND	ND
Blue crab (Whole)	Around 18km Offshore of Ukedo River (T-B2)	December 21, 2012	ND	ND	ND
Lepidotrigla microptera (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	December 21, 2012	ND	ND	ND
Common skete (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	December 21, 2012	27	52	79
Loliginid (Whole)	Around 18km Offshore of Ukedo River (T-B2)	December 21, 2012	ND	ND	ND
Sea bass (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	December 21, 2012	55	110	165
Crimson sea bream (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	December 21, 2012	ND	ND	ND
Microstoms achne (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	December 21, 2012	15	29	44
Flatfish (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	December 21, 2012	7.4	21	28.4
Common Japanese conger (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	December 21, 2012	5.9	10	15.9

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. 4.3Bq/kg (Raw), Cs-137: Approx. 4.6Bq/kg (Raw)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

\* Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc.

Nuclide Analysis Results of Fish and Shellfish  
(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 6/10 >

(Data summarized on January 18)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Littlemouth flounder (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	December 21, 2012	ND	7.4	7.4
Marbled sole (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	December 21, 2012	19	31	50
Octopus dofleini (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	December 21, 2012	ND	ND	ND
Roundnose flounder (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	December 21, 2012	ND	6.2	6.2
Ridged-eye flounder (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	December 21, 2012	9.1	20	29.1
Slippery sole (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	December 21, 2012	5.9	12	17.9
Loligo bleekeri (Whole)	Around 18km Offshore of Ukedo River (T-B2)	December 21, 2012	ND	ND	ND
Stone flounder (Muscle)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	December 14, 2012	30	42	72
Lepidotrigla microptera (Muscle)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	December 14, 2012	4.9	8.7	13.6
Common skate (Muscle)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	December 14, 2012	50	98	148

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. 4.5Bq/kg (Raw), Cs-137: Approx. 3.8Bq/kg (Raw)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

\* Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc.

**Nuclide Analysis Results of Fish and Shellfish**  
**(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 7/10 >**

(Data summarized on January 18)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Takifugu snyderi (Muscle)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	December 14, 2012	6.9	15	21.9
Loliginid (Whole)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	December 14, 2012	ND	ND	ND
Sea bass (Muscle)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	December 14, 2012	12	33	45
Crimson sea bream (Muscle)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	December 14, 2012	ND	4.9	4.9
Microstoms achne (Muscle)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	December 14, 2012	34	61	95
Flatfish (Muscle)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	December 14, 2012	12	19	31
Sea robin (Muscle)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	December 14, 2012	4.1	7.4	11.5
Marbled sole (Muscle)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	December 14, 2012	44	78	122
Pagrus major (Muscle)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	December 14, 2012	ND	9.1	9.1
Greenling (Muscle)	Around 10km Offshore of Fukushima Daini NPS (T-B4)	December 14, 2012	14	27	41

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. 4.2Bq/kg (Raw), Cs-137: Approx. 4.0Bq/kg (Raw)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

\* Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc.

**Nuclide Analysis Results of Fish and Shellfish**  
**(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 8/10 >**

(Data summarized on January 18)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Lepidotrigla microptera (Muscle)	Around 10km Offshore of Fukushima Daini NPS (T-B4)	December 14, 2012	ND	7.1	7.1
Common skete (Muscle)	Around 10km Offshore of Fukushima Daini NPS (T-B4)	December 14, 2012	58	100	158
Takifugu snyderi (Muscle)	Around 10km Offshore of Fukushima Daini NPS (T-B4)	December 14, 2012	18	30	48
Loliginid (Whole)	Around 10km Offshore of Fukushima Daini NPS (T-B4)	December 14, 2012	ND	ND	ND
Crimson sea bream (Muscle)	Around 10km Offshore of Fukushima Daini NPS (T-B4)	December 14, 2012	ND	10	10
Microstoms achne (Muscle)	Around 10km Offshore of Fukushima Daini NPS (T-B4)	December 14, 2012	36	72	108
Flatfish (Muscle)	Around 10km Offshore of Fukushima Daini NPS (T-B4)	December 14, 2012	12	21	33
Sea robin (Muscle)	Around 10km Offshore of Fukushima Daini NPS (T-B4)	December 14, 2012	ND	4.5	4.5
Roundnose flounder (Muscle)	Around 10km Offshore of Fukushima Daini NPS (T-B4)	December 14, 2012	ND	5.2	5.2
Greenling (Muscle) No.1	In the Port of Fukushima Daiichi NPS (Around the Shallow Draft Quay)	December 20, 2012	15000	25000	40000

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. 4.0Bq/kg (Raw), Cs-137: Approx. 3.9Bq/kg (Raw)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

\* Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc.



Nuclide Analysis Results of Fish and Shellfish  
(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 9/10 >

(Data summarized on January 18)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Greenling (Muscle) No.2	In the Port of Fukushima Daiichi NPS (Around the Shallow Draft Quay)	December 20, 2012	7300	13000	20300
Brown hakeling (Muscle) No.1	In the Port of Fukushima Daiichi NPS (Around the Shallow Draft Quay)	December 20, 2012	1400	2500	3900
Brown hakeling (Muscle) No.2	In the Port of Fukushima Daiichi NPS (Around the South Breakwater)	December 20, 2012	310	530	840
Brown hakeling (Muscle) No.3	In the Port of Fukushima Daiichi NPS (Around the South Breakwater)	December 20, 2012	270	500	770
Jacopever (Muscle)	In the Port of Fukushima Daiichi NPS (Around the South Breakwater)	December 20, 2012	37000	64000	101000
Common Japanese conger (Muscle) No.1	In the Port of Fukushima Daiichi NPS (Around the Shallow Draft Quay)	December 20, 2012	760	1400	2160
Common Japanese conger (Muscle) No.2	In the Port of Fukushima Daiichi NPS (Around the Shallow Draft Quay)	December 20, 2012	310	560	870
Common Japanese conger (Muscle) No.3	In the Port of Fukushima Daiichi NPS (Around the South Breakwater)	December 20, 2012	670	1200	1870
Spotbelly rockfish (Muscle) No.1	In the Port of Fukushima Daiichi NPS (Around the Shallow Draft Quay)	December 20, 2012	5700	9800	15500
Spotbelly rockfish (Muscle) No.2	In the Port of Fukushima Daiichi NPS (Around the Shallow Draft Quay)	December 20, 2012	94000	160000	254000

\* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

Nuclide Analysis Results of Fish and Shellfish  
(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 10/10 >

(Data summarized on January 18)

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Spotbelly rockfish (Muscle) No.3	In the Port of Fukushima Daiichi NPS (Around the Shallow Draft Quay)	December 20, 2012	51000	89000	140000
Spotbelly rockfish (Muscle) No.4	In the Port of Fukushima Daiichi NPS (Around the Shallow Draft Quay)	December 20, 2012	19000	30000	49000

\* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg