

Nuclide Analysis Results of Fish and Shellfish
(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 1/4 >

(Data summarized on June 1)

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)	Around 15km offshore of Odaka Ward (T-B1)	May 17, 2012	35	50	85
Northern dogfish (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 17, 2012	ND	ND	ND
Stone flounder (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 17, 2012	91	120	211
Andrea cuttlefish (Whole)	Around 15km offshore of Odaka Ward (T-B1)	May 17, 2012	ND	ND	ND
Lepidotrigla microptera (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 17, 2012	ND	6.4	6.4
Lophius litilon (Whole)	Around 15km offshore of Odaka Ward (T-B1)	May 17, 2012	ND	4.5	4.5
Loliginid (Whole)	Around 15km offshore of Odaka Ward (T-B1)	May 17, 2012	ND	ND	ND
Sea bass (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 17, 2012	11	22	33
Long shanny (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 17, 2012	20	27	47
Microstomus achne (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 17, 2012	23	27	50

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

Cs-134: Approx.4.8Bq/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) < 2/4 >

(Data summarized on June 1)

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
Flatfish (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 17, 2012	ND	5.6	5.6
Littlemouth flounder (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 17, 2012	21	32	53
Marbled sole (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 17, 2012	39	53	92
Pacific cod (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 17, 2012	34	50	84
Octopus (Enteroctopus dofleini) (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 17, 2012	ND	ND	ND
Roundnose flounder (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 17, 2012	ND	4.5	4.5
Chestnutoctopus (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 17, 2012	ND	ND	ND
Loligo bleekeri (Whole)	Around 15km offshore of Odaka Ward (T-B1)	May 17, 2012	ND	ND	ND
Greenling (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	28	38	66
Flathead flounder (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	ND	4.1	4.1

* 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.3.6Bq/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) < 3/4 >

(Data summarized on June 1)

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
Northern dogfish (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	18	32	50
Lepidotrigla microptera (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	4.7	8.6	13.3
Lophius litilon (Whole)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	ND	4.3	4.3
Sea raven (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	10	15	25
Loliginid (Whole)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	ND	ND	ND
Pointhead flounder (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	ND	4.1	4.1
Long shanny (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	7.2	9.2	16.4
Microstomus achne (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	9.1	17	26.1
Flatfish (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	19	35	54
Korean flounder (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	ND	4.8	4.8

* 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.4.4Bq/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

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

(Data summarized on June 1)

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
Common Japanese conger (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	7.4	14	21.4
Littlemouth flounder (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	15	25	40
Marbled sole (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	21	28	49
Pacific cod (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	10	15	25
Octopus (Enteroctopus) dofleini (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	ND	ND	ND
Roundnose flounder (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	5.5	9.6	15.1
Chestnutoctopus (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	ND	9.1	9.1
Slippery sole (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	11	18	29
Loligo bleekeri (Whole)	Around 18km Offshore of Ukedo River (T-B2)	May 17, 2012	ND	ND	ND

* 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.

Sample Photos of Fish and Shellfish (May 17, 2012)

Sampling locations: Around 15km Offshore of Odaka Ward (T-B1), Around 18km Offshore of Ukedo River (T-B2)

1. Greenling



2. Northern dogfish



3. Stone flounder



4. Andrea cuttlefish



5. Lepidotrigla microptera



6. Lophius litilon



7. Loliginid



8. Sea bass



9. Long shanny



10. Microstomus achne



11. Flatfish



12. Littlemouth flounder



13. Marbled sole



14. Pacific cod



15. Octopus (Enteroctopus) dofleini



Sample Photos of Fish and Shellfish (May 17, 2012)

Sampling locations: Around 15km Offshore of Odaka Ward (T-B1), Around 18km Offshore of Ukedo River (T-B2)

16. Roundnose flounder



17. Chestnut octopus



18. Loligo bleekeri



19. Flathead flounder



20. Sea raven



21. Pointhead flounder



22. Korean flounder



23. Common Japanese conger



24. Slippery sole

