

**Nuclide Analysis Results of Fish and Shellfish**  
(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 1/5 >

(Data summarized on June 15)

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
Stingray (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	May 30, 2012	22	33	55
Flatfish (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	May 30, 2012	120	170	290
Sea bass (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	May 30, 2012	140	210	350
Banded dogfish (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	May 30, 2012	190	300	490
Pennahia argentata (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	May 30, 2012	50	74	124
Common Skete (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	May 30, 2012	220	310	530
Microstomus achne (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	May 30, 2012	200	290	490
Marbled sole (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	May 30, 2012	220	300	520
Lophius litilon (Whole)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	May 30, 2012	4.4	5.6	10
Blue crab (Whole)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	May 30, 2012	ND	7.1	7.1

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

Cs-134: 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.

\* Corrections were made on July 31, 2012.

Nuclide Analysis Results of Fish and Shellfish  
(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 2/5 >

(Data summarized on June 15)

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 30, 2012	21	26	47
Stone flounder (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 30, 2012	100	140	240
Microstomus achne (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 30, 2012	6.0	13	19
Marbled sole (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 30, 2012	18	28	46
Littlemouth flounder (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 30, 2012	39	64	103
Greenling (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 30, 2012	43	48	91
Common horse mackerel (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 30, 2012	17	18	35
Pennahia argentata (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 30, 2012	7.0	8.0	15
Pacific cod (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 30, 2012	32	60	92
Lepidotrigla microptera (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 30, 2012	8.0	11	19

\* 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) < 3/5 >

(Data summarized on June 15)

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
Lophius litilon (Whole)	Around 15km offshore of Odaka Ward (T-B1)	May 30, 2012	ND	7.2	7.2
Dory (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 30, 2012	8.2	7.2	15.4
Common Skete (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 30, 2012	72	110	182
Chestnutoctopus (Muscle)	Around 15km offshore of Odaka Ward (T-B1)	May 30, 2012	ND	ND	ND
Loliginid (Whole)	Around 15km offshore of Odaka Ward (T-B1)	May 30, 2012	ND	ND	ND
Andrea cuttlefish (Whole)	Around 15km offshore of Odaka Ward (T-B1)	May 30, 2012	ND	ND	ND
Lepidotrigla microptera (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 30, 2012	11	15	26
Microstomus achne (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 30, 2012	ND	19	19
Lophius litilon (Whole)	Around 18km Offshore of Ukedo River (T-B2)	May 30, 2012	7.6	6.4	14
Slippery sole (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 30, 2012	8.0	15	23

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

Cs-134: Approx. 7.0Bq/kg (Raw), Cs-137: Approx. 4.7Bq/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) < 4/5 >

(Data summarized on June 15)

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
Octopus (Enteroctopus) dofleini (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 30, 2012	ND	ND	ND
Loliginid (Whole)	Around 18km Offshore of Ukedo River (T-B2)	May 30, 2012	ND	ND	ND
Marbled sole (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 30, 2012	8.2	16	24.2
Pointhead flounder (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 30, 2012	ND	8.3	8.3
Korean flounder (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 30, 2012	ND	ND	ND
Greenling (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 30, 2012	29	43	72
Pacific cod (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 30, 2012	40	45	85
Common horse mackerel (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 30, 2012	5.2	9.0	14.2
Long shanny (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 30, 2012	14	28	42
Chestnutoctopus (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 30, 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. 6.4Bq/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) < 5/5 >

(Data summarized on June 15)

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 Octopus (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	May 30, 2012	ND	ND	ND
Andrea cuttlefish (Whole)	Around 18km Offshore of Ukedo River (T-B2)	May 30, 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. 5.0Bq/kg (Raw), Cs-137: Approx. 4.7Bq/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 30, 2012)

Sampling locations: Around 2km Offshore of 2F (T-S7), Around 15km Offshore of Odaka Ward (T-B1),  
Around 18km Offshore of Ukedo River (T-B2)

1. Stingray



2. Flatfish



3. Sea bass



4. Banded dogfish



5. Pennahia argentata



6. Common skate



7. Microstomus achne



8. Marbled sole



9. Lophius litilon



10. Blue crab



11. Stone flounder



12. Littlemouth flounder



13. Greenling



14. Common horse mackerel



15. Pacific cod



# Sample Photos of Fish and Shellfish (May 30, 2012)

Sampling locations: Around 2km Offshore of 2F (T-S7), Around 15km Offshore of Odaka Ward (T-B1),  
Around 18km Offshore of Ukedo River (T-B2)

16. *Lepidotrigla microptera*



17. Dory



18. Chestnut octopus



19. Loliginid



20. Andrea cuttlefish



21. Slippery sole



22. Octopus (*Enteroctopus dofleini*)



23. Pointhead flounder



24. Korean flounder



25. Long shanny



26. Common octopus

