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**Incidental Catches of Anadromous Fish by Japanese
Research Vessel in the North Pacific Ocean in 2006**

by

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THIS PAPER MAY BE CITED IN THE FOLLOWING MANNER:

Fisheries Research Agency. 2007. Incidental catches of anadromous fish by Japanese research vessel in the North Pacific Ocean in 2005 (NPAFC Doc 1020) 6 p. Fisheries Research Agency, 15F Queen's tower B, Minato-mirai, Nishi-ku, Yokohama 220-6115, Japan.

Some Japanese research vessels conducted the scientific fisheries operation with possibilities of the incidental catch of anadromous fish in 2006 (NPAFC Doc934)

Among them, *R/V Tomi maru No.58*, which conducted the experimental towing of the surface and mid water trawl gear to develop the commercial fishery on neon flying squid (*Ommastrephes bartrani*), pacific pomfret (*Brama japonica*) during a period from 6th June to 6th September 2005, had caught a total of 1,193 pacific salmons incidentally. The summary deta of the catch by this vessel were shown in table 1. Total of 1,192 slmons including 1,153 chum, 38 chinook, one coho, and one steelhead were caught.

Total of 92 salmomids including 4 chum salmon, 83 pink salmon, 4 coho salmon, and 1 chinook salmon were caught by gill net survey for Pacific saury sury in July 2006 (*R/V Hokushin maru*; table 2).

Total of 116 salmonids including 63 chum, 38 pink, 13 coho, and 2 chinook salmon were caught by surface trawl net operations or Pacific sury survey in June and July 2006 (*R/V Hokko maru*; table3).

Total of 65 salmonids including 55 chum, 5 chinnok, 4 pink, and 1 coho salmon were caught by surface trawl net operations for Pacific saury survey in June 2006 (*R/V Oumi maru*; table 4).

Total of 249 salmonids in cluding 192 pin, 52 chum, 4 coho, and 1 chinook salmon were caught by surface trawl net operations for Pacific saury in June and July 2006 (*R/V Hokuho maru*; table5).

Total of 46 salmonids including 38 chum, 5 sockeye, and 3 chinook salmon were caught by surface trawl operations for young pelagic fishes survey in September 2006 (*R/V Hokuho maru*; table6).

Table 1. Summary data of incidental catches of anadromous fish with the use of the surface and mid water trawl gear by Japanese Research Vessel *Tomi maru No.58* in the North Pacific Ocean during a period from June to September 2006.

Species	Date	Latitude	Longitude	Catch		Fork length (cm)
				Number	Weight (kg)	
Chinook salmon	26 July	44-01N	157-01E	2	5.77	56--65
	12 August	47-10N	176-29E	12	41.83*	61--69
	15 August	46-05N	174-43E	1	3.68	65
	17 August	45-47N	173-43E	1	4.83	71
	18 August	45-50N	174-25E	2	8.42	65--70
	19 August	45-37N	174-50E	5	21.45	54--75
	20 August	46-26N	173-53E	3	17.67	68--88
	21 August	47-48N	171-50E	12	28.73*	37-71
Chum salmon	24 June	41-24N	172-43E	1	2.33	57
	27 June	42-29N	176-29E	1	2.05	56
	4 July	42-28N	176-25E	1	1.237	45
	24 July	41-23N	158-40E	1	4.576	70
	26 July	44-01N	157-01E	58	166.87*	48--70
	11 August	46-00N	175-40E	14	19.07	43--54
	11 August	46-00N	176-23E	93	13.46*	43--66
	12 August	47-10N	176-29E	170	201.96*	42--64
	13 August	47-00N	175-00E	35	NA	unknown
	13 August	46-30N	174-47E	56	110.71*	48--60
	15 August	46-05N	174-43E	2	NA	unknown
	16 August	45-49N	174-41E	6	9.34*	44--57
	17 August	45-47N	173-43E	3	7.52	55--61
	18 August	45-50N	174-25E	1	3.23	64
	19 August	45-37N	174-50E	4	10.42	50--66
	20 August	46-26N	173-53E	193	289.50*	40--60
	21 August	47-32N	172-20E	2	NA	unknown
21 August	47-48N	171-50E	511	679.12	40--63	
14 September	43-46N	154-43E	1	2.35	58	
Coho salmon	27 June	42-09N	176-13E	1	2.27	55
Steel head	24 August	46-17N	177-00E	1	1.04	51
Sum				1,193		

* Calculated value by use of average body weight

Table2. Summary data of incidental catches of anadromous fish with the use of the gill net for Pacific saury by Japanese Research Vessel *Hokushin maru* in the North Pacific Ocean in July 2006.

Species	Date	Latitude	Longitude	Catch Number	Average Fork length (mm)
Chinook salmon	18 July	45°30'N	158°30'E	1	610
Chum salmon	15 July	45°30'N	162°30'E	2	530
	16 July	46°30'N	161°00'E	1	490
	17 July	46°30'N	159°30'E	1	528
Coho salmon	15 July	45°30'N	162°30'E	1	571
	16 July	46°30'N	161°00'E	1	535
	17 July	46°30'N	159°30'E	1	540
	18 July	45°30'N	158°30'E	1	566
Pink salmon	15 July	45°30'N	162°30'E	13	473
	16 July	46°30'N	161°00'E	28	478
	17 July	46°30'N	159°30'E	20	462
	18 July	45°30'N	158°30'E	22	456
Sum				92	

Table3. Summary data of incidental catches of anadromous fish with the use of the surface trawl net for Pacific saury by Japanese Research Vessel *Hokko maru* in the North Pacific Ocean in June and July 2006

Species	Date	Latitude	Longitude	Catch Numbe	AV. Weight (kg)	AV. Fork length (cm)
Chinook salmon	8 July	43°04'N	157°45'E	1	5.43	73
	8 July	43°24'N	158°28'E	1	3.35	-
Chum salmon	30 June	41°35'N	157°50'E	5	1.58	50.0
	1 July	42°40'N	157°21'E	3	1.89	52.0
	2 July	42°36'N	157°26'E	7	1.51	49.2
	2 July	42°39'N	157°25'E	1	1.39	47.5
	3 July	43°02'N	157°20'E	4	1.79	51.5
	3 July	43°04'N	157°45'E	4	1.68	-
	4 July	43°24'N	158°26'E	1	4.69	66.0
	5 July	41°25'N	158°59'E	1	2.25	-
	5 July	41°42'N	158°58'E	2	3.32	-
	6 July	43°27'N	156°47'E	3	1.79	-
	6 July	43°16'N	157°01'E	3	1.74	50.6
	7 July	43°15'N	156°59'E	7	1.93	51.9
	7 July	43°23'N	157°15'E	4	4.22	58.9
	8 July	43°11'N	156°59'E	4	2.13	53.5
	8 July	43°28'N	157°11'E	6	1.53	49.0
9 July	43°14'N	156°43'E	7	1.89	47.2	
9 July	43°14'N	156°40'E	1	2.06	53.6	
Coho salmon	1 July	42°40'N	157°21'E	1	2.46	57.5
	3 July	43°04'N	157°45'E	1	2.75	-
	5 July	41°42'N	158°58'E	2	2.54	-
	6 July	43°27'N	156°47'E	1	1.79	-
	7 July	43°15'N	156°59'E	2	3.87	62.3
	7 July	43°23'N	157°15'E	3	3.57	61.8
	8 July	43°11'N	156°59'E	1	3.50	62.5
	8 July	43°28'N	157°11'E	2	3.28	60.8
Pink salmon	30 June	45°30'N	162°30'E	1	1.01	44.2
	1 July	46°30'N	161°00'E	4	1.06	44.6
	2 July	46°30'N	159°30'E	5	1.19	45.7
	2 July	45°30'N	158°30'E	5	1.11	44.7
	3 July	44°30'N	157°30'E	6	1.11	45.1
	4 July	43°24'N	158°26'E	1	0.98	-
	4 July	43°24'N	158°28'E	6	1.17	-
	6 July	43°16'N	157°01'E	6	1.10	44.7
	7 July	43°15'N	156°59'E	1	1.27	47.6
	8 July	43°11'N	156°59'E	1	1.28	46.6
	8 July	43°28'N	157°11'E	1	0.87	40.8
9 July	43°14'N	156°43'E	1	1.35	47.6	
Sum				116		

Table4. Summary data of incidental catches of anadromous fish with the use of the surface trawl net for Pacific saury by Japanese Research Vessel *Oumi maru* in the North Pacific Ocean in June 2006

Species	Date	Latitude	Longitude	Catch Number	AV. Weight (kg)	AV. Fork length (cm)
Chinook salmon	7 June	40°14'N	175°00'E	1	-	-
	8 June	41°45'N	174°59'E	1	-	-
	8 June	42°30'N	174°58'E	2	-	-
	18 June	42°45'N	176°59'W	1	4.97	-
Chum salmon	18 June	42°15'N	176°58'W	3	0.92	-
	18 June	42°45'N	176°59'W	1	0.91	-
	19 June	43°44'N	177°00'W	16	0.49	-
	19 June	42°59'N	177°00'W	1	0.42	-
	20 June	42°59'N	172°59'W	32	0.35	-
	26 June	43°46'N	169°00'W	2	0.63	-
Coho salmon	6 June	38°01'N	175°10'E	1	-	-
Pink salmon	6 June	38°01'N	175°10'E	2	-	-
	23 June	39°30'N	168°59'W	1	-	-
	29 June	42°13'N	165°00'W	1	-	-
Sum				65		

Table5. Summary data of incidental catches of anadromous fish with the use of the surface trawl net for Pacific saury by Japanese Research Vessel *Hokuho maru* in the North Pacific Ocean in June and July 2006

Species	Date	Latitude	Longitude	Catch Number	AV. Weight (kg)	AV. Fork length (cm)	
Chinook salmon	3 July	44°02'N	171°05'E	1	-	-	
Chum salmon	17 June	43°02'N	154°54'E	3	0.47	-	
	17 June	41°56'N	154°56'E	8	0.48	-	
	18 June	41°04'N	154°54'E	1	3.04	-	
	23 June	41°48'N	159°00'E	1	1.27	-	
	25 June	41°30'N	162°57'E	2	1.19	-	
	26 June	40°15'N	163°05'E	1	2.10	-	
	1 July	42°31'N	166°53'E	2	1.35	-	
	2 July	42°51'N	167°09'E	4	1.15	-	
	2 July	43°30'N	167°00'E	1	0.55	-	
	2 July	43°40'N	168°15'E	1	0.97	-	
	3 July	44°44'N	171°11'E	24	0.64	-	
	4 July	43°30'N	171°10'E	4	0.92	-	
	Coho salmon	1 July	42°31'N	166°59'E	2	1.56	-
		4 July	43°30'N	171°04'E	1	1.76	-
		4 July	43°00'N	171°03'E	1	2.27	-
Pink salmon	10 June	41°17'N	144°08'E	73	0.53	-	
	10 June	41°18'N	144°31'E	2	0.86	-	
	11 June	40°43'N	144°43'E	15	0.86	-	
	16 June	41°51'N	151°59'E	1	0.85	-	
	16 June	42°08'N	152°39'E	6	0.73	-	
	16 June	42°29'N	153°35'E	17	0.59	-	
	17 June	43°00'N	154°59'E	18	0.78	-	
	17 June	42°39'N	154°59'E	1	0.94	-	
	17 June	41°54'N	154°59'E	27	0.74	-	
	18 June	41°01'N	156°59'E	1	1.10	-	
	23 June	41°43'N	159°00'E	7	1.05	-	
	24 June	42°18'N	159°00'E	6	0.94	-	
	2 July	43°26'N	167°00'E	2	1.07	-	
	2 July	43°39'N	168°09'E	16	0.88	-	
Sum				249			

Table6. Summary data of incidental catches of anadromous fish with the use of the surface trawl net for young pelagic fishes by Japanese Research Vessel *Hokuho maru* in the North Pacific Ocean in September 2006.

Species	Date	Latitude	Longitude	Catch Number	AV. Weight (kg)	AV. Fork length (cm)
Chinook salmon	16 September	46°59'N	160°03'E	1	1.44	-
	17 September	47°43'N	162°02'E	1	-	-
	19 September	46°18'N	165°02'E	1	0.75	-
Chum salmon	16 September	46°59'N	160°03'E	4	2.82	-
	17 September	47°38'N	160°02'E	3	2.05	-
	17 September	47°43'N	162°02'E	4	1.31	-
	17 September	48°22'N	162°00'E	4	1.96	-
	18 September	49°01'N	162°03'E	10	1.67	-
	18 September	48°22'N	165°02'E	3	1.08	-
	18 September	47°38'N	164°59'E	4	1.35	-
	19 September	47°00'N	165°02'E	6	1.31	-
	19 September	46°18'N	165°15'E	2	1.56	-
Sockeye salmon	18 September	49°01'N	162°03'E	2	1.04	-
	18 September	48°21'N	165°02'E	3	1.08	-
Sum				46		