

**The plan of salmon for the brood year 2008 marking at the  
hatcheries of the Far East of Russia**

by

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Submitted to the

NORTH PACIFIC ANADROMOUS FISH COMMISSION

by

Russia

November 2008

**THIS PAPER MAY BE CITED IN THE FOLLOWING MANNER:**

Akinicheva, E., V. Volobuev. 2008. The plan of salmon for the brood year 2008 marking at the hatcheries of the Far East of Russia. NPAFC Doc. 1108. 3 pp. Magadan Scientific and Research Institute of Fisheries and Oceanography, Magadan, Russia. (Available at <http://www.npafc.org>).

## **The plan of salmon for the brood year 2008 marking at the hatcheries of the Far East of Russia**

### **Abstract**

Marking of salmon of the brood year 2008 in Russia is to be conducted in four regions of the Far East: Magadan, Kamchatski, Khabarovski and Sahalinski. Marking will be conducted at 19 hatcheries of Russia and 25 patterns of marking will be used: 16 marking patterns for chum, 8 marking patterns for coho, 6 marking patterns for pink, 7 marking patterns for sockeye, 1 for masu and chinook. Some marking patterns will be used for different salmon.

Marking of the Pacific salmon at hatcheries of Russia is carried out first of all for the purpose of evaluating the number of returning fish to the basic rivers of the hatcheries. Such evaluation is extremely important for Magadan, for example, where salmon raising is a relatively young branch of fishing industry and it is conducted in a very difficult situation under severe climatic conditions. Research on the evaluation of the survivability rate and physiological status of young salmon during the early sea period is conducted during the last years in this region on the basis of total salmon marking.

The evaluation of the returning salmon hatchery raised is being urgent for fishing industry of Kamchatka too.

Pacific salmon marking has already been conducted for ten years in these areas. In 2008 total marking of all hatchery raised salmon (chum salmon, coho salmon, sockeye salmon and chinook salmon) is planned at six hatcheries of Kamchatka and chum salmon, sockeye salmon and coho salmon are to be marked at four hatcheries of Magadan. Nine different marking patterns will be used at hatcheries of Kamchatka and seven marking patterns will be used at hatcheries of Magadan.

Unlike the Magadan region hatcheries in Sakhalin have been functioning for fifty years already. Optimal biotechnology of salmon raising has been developed here and high number of returning chum salmon and pink salmon is reached. That is why the evaluation of pink salmon wandering released from different hatcheries is considered to be a more urgent task of marking. Their marking is to be conducted at four hatcheries using five different marking patterns. Besides chum salmon are to be marked at three hatcheries.

In the Khabarovski region chum salmon and masu salmon are to be marked at piscicultural enterprise "Comet."

Altogether at nineteen hatcheries of Russia twenty five different marking patterns will be used: sixteen for chum salmon, eight for coho salmon, six for pink salmon, seven for sockeye salmon, one for chinook salmon and one for masu salmon. Some marking patterns will be used several times for different kinds of salmon.

The data on hatchery raised salmon released from the hatcheries are presented in Table 1.

The thermal marking pattern is presented as the RBr notation (Munk and Geiger 1998; Hagen 1999) and Hatch code notation (Hagen et al. 2000).

### **References**

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Munk, K. M., and H. J. Geiger. 1998. Thermal marking of otoliths: the "RBr" coding structure of thermal marks. (NPAFC Doc. 367) 19 p. CWT & Otolith Processing Lab., Alaska Department of Fish and Game, Juneau, Alaska, USA.

Table1. Plan marks from Russia for 2008 brood year stocks of salmon

№№	Mark Type	BROOD YEAR	SPECIES	COUNTRY	STATE/ PROVINCE	AGENCY	FACILITY	HATCH CODE
1	2	3	4	5	6	7	8	9
1	DM	2008	chum	Russia	Magadanskaya	OhotskRV	Armanskiy Hatchery	1,2,2H
2	DM	2008	chum	Russia	Magadanskaya	OhotskRV	Ol'skiy Hatchery	1,3,1H
3	DM	2008	chum	Russia	Magadanskaya	OhotskRV	Ol'skiy Hatchery	1,2,1H
4	DM	2008	chum	Russia	Magadanskaya	MagadanNIRO	Ol'skiy Hatchery	5H
5	DM	2008	chum	Russia	Magadanskaya	OhotskRV	Tauyskiy Hatchery	1,2H
6	DM	2008	chum	Russia	Magadanskaya	OhotskRV	Yanskiy Hatchery	1,5H
7	DM	2008	chum	Russia	Kamchatka	Sev-VostRV	Ketkinsky Hatchery	3,4H
8	DM	2008	chum	Russia	Kamchatka	Sev-VostRV	Ozerkovsky Hatchery	3,1,2nH
9	DM	2008	chum	Russia	Kamchatka	Sev-VostRV	Paratunsky Hatchery	H4,3
10	DM	2008	chum	Russia	Kamchatka	Sev-VostRV	Viluyskiy Hatchery	3,1,1H
11	DM	2008	chum	Russia	Kamchatka	Sev-VostRV	Yuzhno-Kamchatskiy Hatchery	3,1,3nH
12	DM	2008	chum	Russia	Khabarovskaya	Kometa	Kometa Hatchery	4,2H
13	TM	2008	chum	Russia	Sakhalin	SakhRV	Buyuklovskiy Hatchery	3n,3H
14	TM	2008	chum	Russia	Sakhalin	SakhRV	Sokol'nikovskiy Hatchery	H3,2
15	TM	2008	chum	Russia	Sakhalin	Gidrostroy	Kuril'skiy Hatchery	4,2nH
16	TM	2008	chum	Russia	Sakhalin	Gidrostroy	Reydovyy Hatchery	3,2n,2H
17	DM	2008	pink	Russia	Sakhalin	SakhRV	Anivskiy Hatchery	3,2H
18	TM	2008	pink	Russia	Sakhalin	SakhRV	Sokolovskiy Hatchery	1,3H
19	TM	2008	pink	Russia	Sakhalin	SakhRV	Taranayskiy Hatchery	5H
20	TM	2008	pink	Russia	Sakhalin	SakhRV	Urozhayniy Hatchery	3,2n,1H
21	TM	2008	pink	Russia	Sakhalin	Gidrostroy	Kuril'skiy Hatchery	3,3nH
22	TM	2008	pink	Russia	Sakhalin	Gidrostroy	Reydovyy Hatchery	3,1H
23	DM	2008	sockeye	Russia	Magadanskaya	OhotskRV	Armanskiy Hatchery	1,2,2H
24	DM	2008	sockeye	Russia	Magadanskaya	OhotskRV	Ol'skiy Hatchery	1,3,1H
25	TM	2008	sockeye	Russia	Kamchatka	Sev-VostRV	Malkinskiy Hatchery	3,6H
26	TM	2008	sockeye	Russia	Kamchatka	Sev-VostRV	Malkinskiy Hatchery	1,2H
27	DM	2008	sockeye	Russia	Kamchatka	Sev-VostRV	Ketkinsky Hatchery	4,3H
28	DM	2008	sockeye	Russia	Kamchatka	Sev-VostRV	Ozerkovsky Hatchery	3,1,3H
29	DM	2008	sockeye	Russia	Kamchatka	Sev-VostRV	Ozerkovsky Hatchery	3n,2H
30	DM	2008	coho	Russia	Magadanskaya	OhotskRV	Armanskiy Hatchery	1,2,2H
31	DM	2008	coho	Russia	Magadanskaya	OhotskRV	Ol'skiy Hatchery	5H
32	DM	2008	coho	Russia	Magadanskaya	OhotskRV	Tauyskiy Hatchery	1,2H
33	DM	2008	coho	Russia	Magadanskaya	OhotskRV	Tauyskiy Hatchery	4,2nH
34	DM	2008	coho	Russia	Magadanskaya	OhotskRV	Yanskiy Hatchery	1,5H
35	DM	2008	coho	Russia	Kamchatka	Sev-VostRV	Ketkinsky Hatchery	3,4H
36	DM	2008	coho	Russia	Kamchatka	Sev-VostRV	Paratunsky Hatchery	4,3H
37	DM	2008	coho	Russia	Kamchatka	Sev-VostRV	Viluyskiy Hatchery	3,1,1H
38	DM	2008	masu	Russia	Khabarovskaya	Kometa	Kometa Hatchery	5H
39	TM	2008	chinook	Russia	Kamchatka	Sev-VostRV	Malkinskiy Hatchery	H3,5