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**TAG RETURNS IN 1989 -
UNITED STATES HIGH SEAS SALMON TAGGING**

by

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ABSTRACT

Fourteen recoveries (8 pink, 5 chum, 1 sockeye) of tags released during U.S. tagging operations in 1975, cooperative U.S.-U.S.S.R. tagging operations in 1986, 1988, and 1989, and U.S.S.R. tagging operations in 1987 are reported. Six tags released in 1987 were recovered on the high seas in 1987. Eight tags were recovered in coastal areas of Asia (5 tags) and North America (3 tags). One recovery in Nyisky Bay extended the known southern range of immature N. Sakhalin chum salmon from 43°30'N to 43°03'N.

INTRODUCTION

This is a report of all recoveries of high seas salmon tags released during U.S. and cooperative U.S.-U.S.S.R. tagging operations and returned between 1 October 1988 and 30 September 1989. The tagging experiments conducted in 1975, 1986, 1988, and 1989 are summarized by Hartt et al. (1977), Kautsky and Harris (1986), and Walker et al. (1988, 1989), respectively. The United States did not participate in tagging operations conducted by the U.S.S.R. in 1987, but information on these tag releases was provided to the Fisheries Research Institute by the U.S.S.R.'s Pacific Research Institute of Fisheries and Oceanography (TINRO) in 1989.

RESULTS

In 1987, Japanese ^{LBDN} research vessels operating south of 46°N between 156°01'E and 162°41'E recovered six pink salmon tagged by U.S.S.R. scientists in May and June, 1987 (Table 1). Direction of movement of these fish from point of release to point of recovery was varied (northeast: tag T742; east: tag T801; southeast: tags R199, R260, and R234; and southwest: tag R387).

Coastal recoveries included eight returns from releases in 1975 (1 tag), 1986 (1 tag), 1988 (3 tags), and 1989 (3 tags) (Table 1). No recovery information was available for tag no. 94537, which was found in the archives of the Kamchatka Branch of TINRO (V.P. Tumanov, pers. comm.). The known southern range of immature chum salmon from N. Sakhalin was extended from 43°30'N to 43°03'N by a recovery in Nyisky Bay (Tag no. M957). None of the other tag recoveries represent range extensions.

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Table 1. Release and recovery information for U.S. and U.S.-U.S.S.R. tags returned 1 October 1988 to 30 September 1989.

Tag no.	Species	Release/ Recovery	Date (mo/day)	INPFC area ¹	N. lat. (°-')	Long. (°-')	Set Gear	no.	Age ²	Fork length (mm)	Sex	Body weight (g)	Description of recovery area
<u>1987 Recovery of 1987 Release</u>													
T742	Pink	Release Recovery	05/22 06/15	E5540 27-4	41-52 43-12	159-29E 161-17E	Seine Gillnet	N-17	0.1	410 400	- M	- 900	High Seas Recovery
T801	Pink	Release Recovery	05/24 06/09	E5542 27-4	42-00 42-00	158-59E 160-10E	Seine Gillnet	N-19	0.1	420	- F	-	High Seas Recovery
R199	Pink	Release Recovery	06/08 06/25	E5542 27-3	43-29 43-28	156-28E 157-05E	Seine Gillnet	N-28	0.1	375 480	- M	- 720	High Seas Recovery
R260	Pink	Release Recovery	06/08 06/25	E5542 27-4	43-29 43-01	156-28E 162-41E	Seine Gillnet	N-28	0.1	420	-	-	High Seas Recovery
R234	Pink	Release Recovery	06/08 06/25	E5542 27-4	43-29 43-01	156-28E 162-41E	Seine Gillnet	N-28	0.1	440	-	-	High Seas Recovery
R387	Pink	Release Recovery	06/09 06/16	E5542 27-3	43-27 41-46	156-25E 156-01E	Seine Gillnet	N-29	0.1	400	-	-	High Seas Recovery
<u>Unknown Year of Recovery of 1975 Release</u>													
94537	Sockeye	Release Recovery	07/24	W8050 15-2	51-06	176-23W	Seine	C-03	2.2	460	-	-	U.S.S.R. Unknown
<u>1988 Recovery of 1986 Release</u>													
M957	Chum	Release Recovery	06/14 09/18	E7042 06-0	43-03 51-55	173-55E 143-10E	Seine	N-60	0.2	430 590	- F	-	Nyisky Bay (eastern Sakhalin)
<u>1988 Recoveries of 1988 Releases</u>													
P617	Chum	Release Recovery	04/16 09/18	W7542 02-1	42-09 42-58	172-56W 144-22E	Seine Trapnet	N-07	0.3 0.3	531 583	- M	- 1854	Kushiro (Pacific coast of Hokkaido)
P849	Pink	Release Recovery	06/21 08/21	E5544 06-3	44-53 49-59	158-20E 142-56E	Seine	N-23	0.1 0.1	442 480	- F	-	South Khandasa R. (east coast of Sakhalin)
U160	Pink	Release Recovery	06/23 08/23	E5544 02-2	44-53 44-58	158-20E 142-38E	Seine	N-24	0.1	452 460	- M	- 800	Esashi (Okhotsk Sea coast of Hokkaido)

Table 1 (cont'd)

Tag no.	Species	Release/ Recovery	Date (mo/day)	INPFC area ¹	N. lat. (°-')	Long. (°-')	Gear	Set no.	Age ²	Fork length (mm)	Sex	Body weight (g)	Description of recovery area
<u>1989 Recovery of 1989 Release</u>													
W334	Chum	Release Recovery	07/02 08/12	W6054 44-1	55-30 60-47	159-04W 161-45W	Seine Gillnet	N-31	0.3	550 -	- F	- -	Kuskokwim R. (near Bethel, Alaska)
W373	Chum	Release Recovery	07/02 07/18	W6054 44-1	55-30 60-13	159-05W 162-01W	Seine Gillnet	N-32	0.4 0.4	615 -	- M	- -	Kuskokwim R. (near Eek Island, Alaska)
W386	Chum	Release Recovery	07/02 07/21	W6054 46-4	55-30 58-54	159-05W 158-36W	Seine Gillnet	N-32	0.3	620 -	- M	- -	Coffee Pt., Nushagak Bay, Alaska

¹2° x 5° release area; general and sub-area recovery area codes.

²Age was determined by visual examination of scale patterns. A blank indicates that no scale sample was enclosed with the recovery.