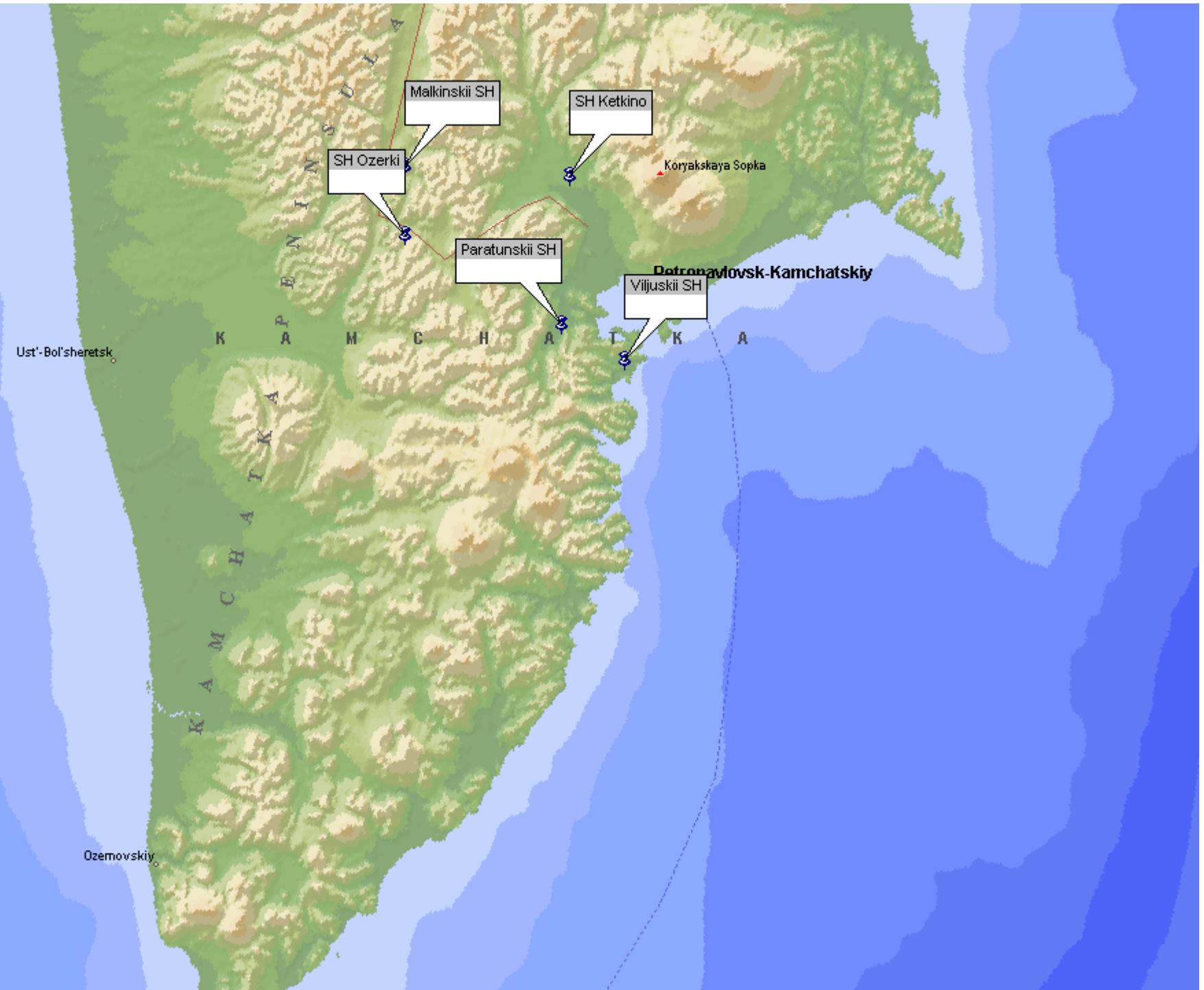


# Some Ecological Consequences of Hatchery Reproduction of Pacific Salmon in Kamchatka

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Shevlyakov E. A.  
KamchatNIRO, Russia*











# Juvenile hatchery chum salmon in River





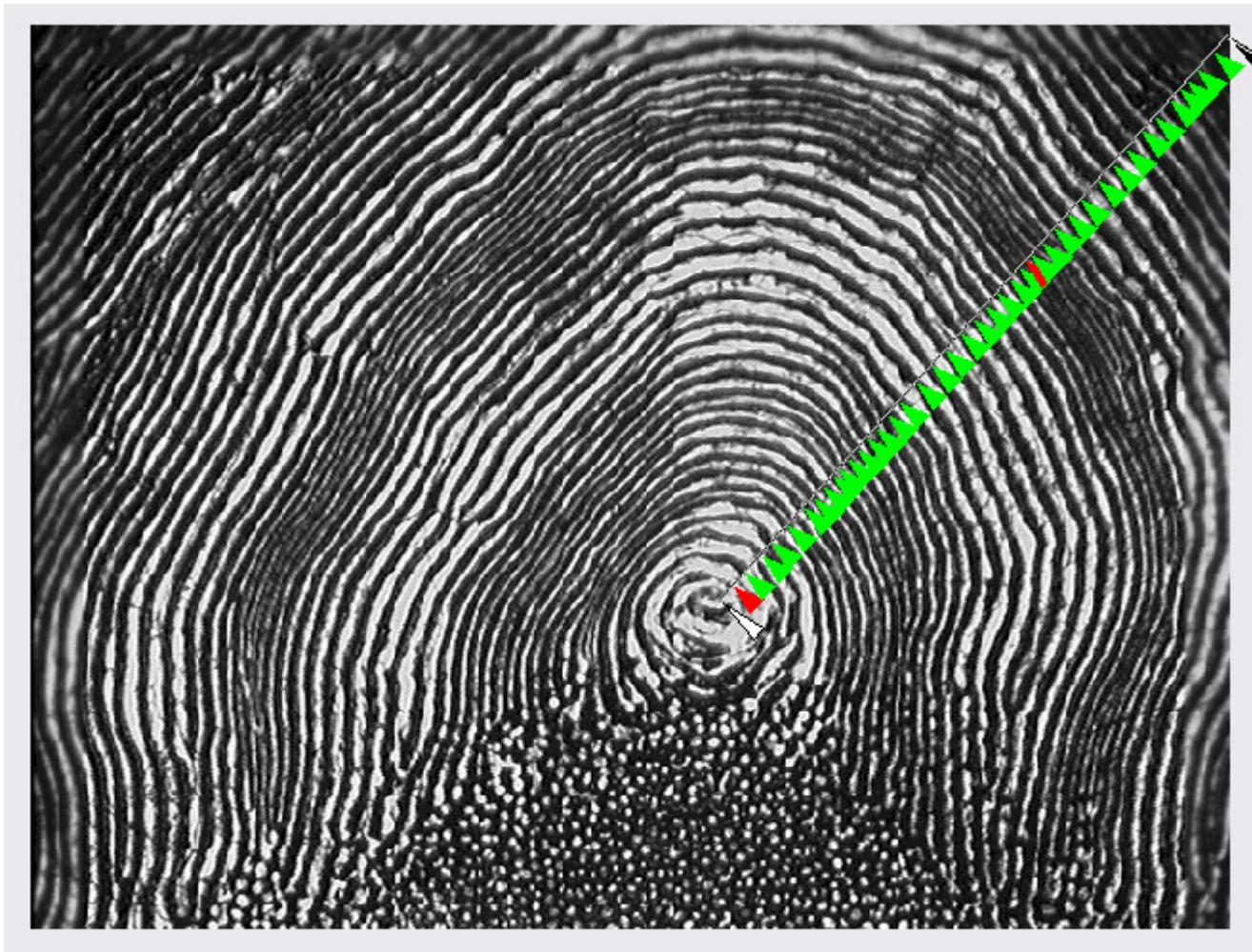


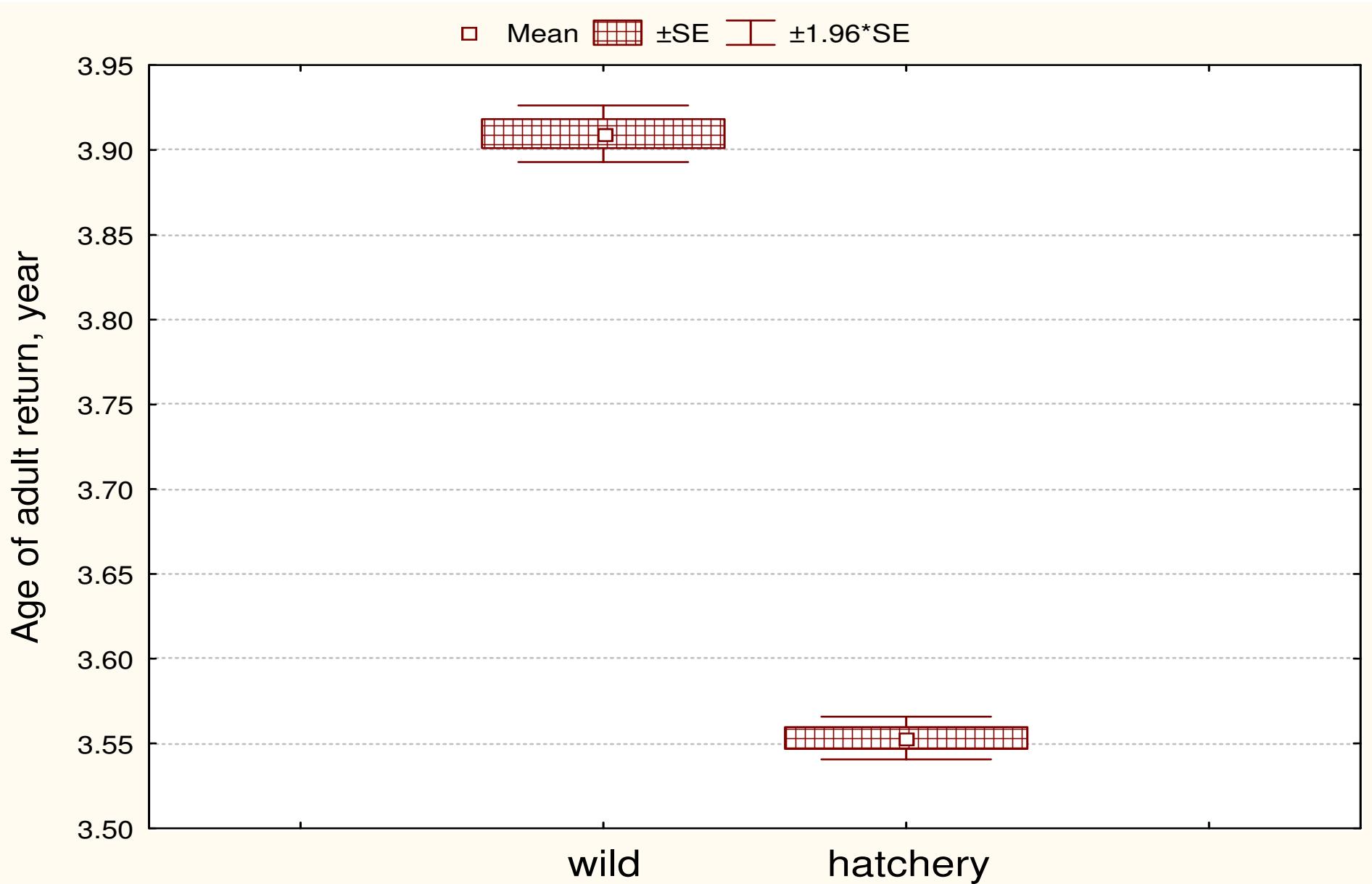


# Biological analysis of carcasses

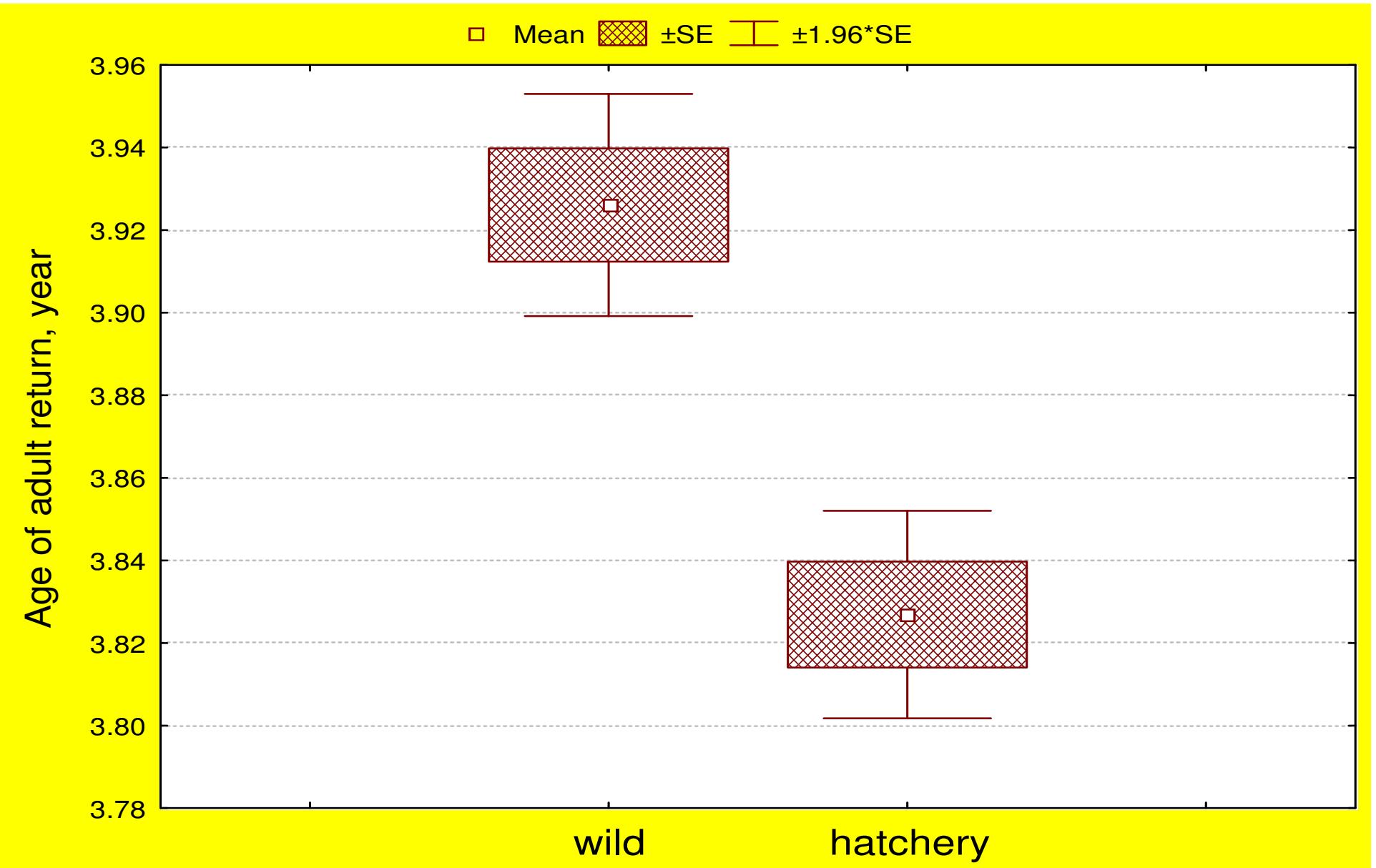


# Scale of the chum salmon

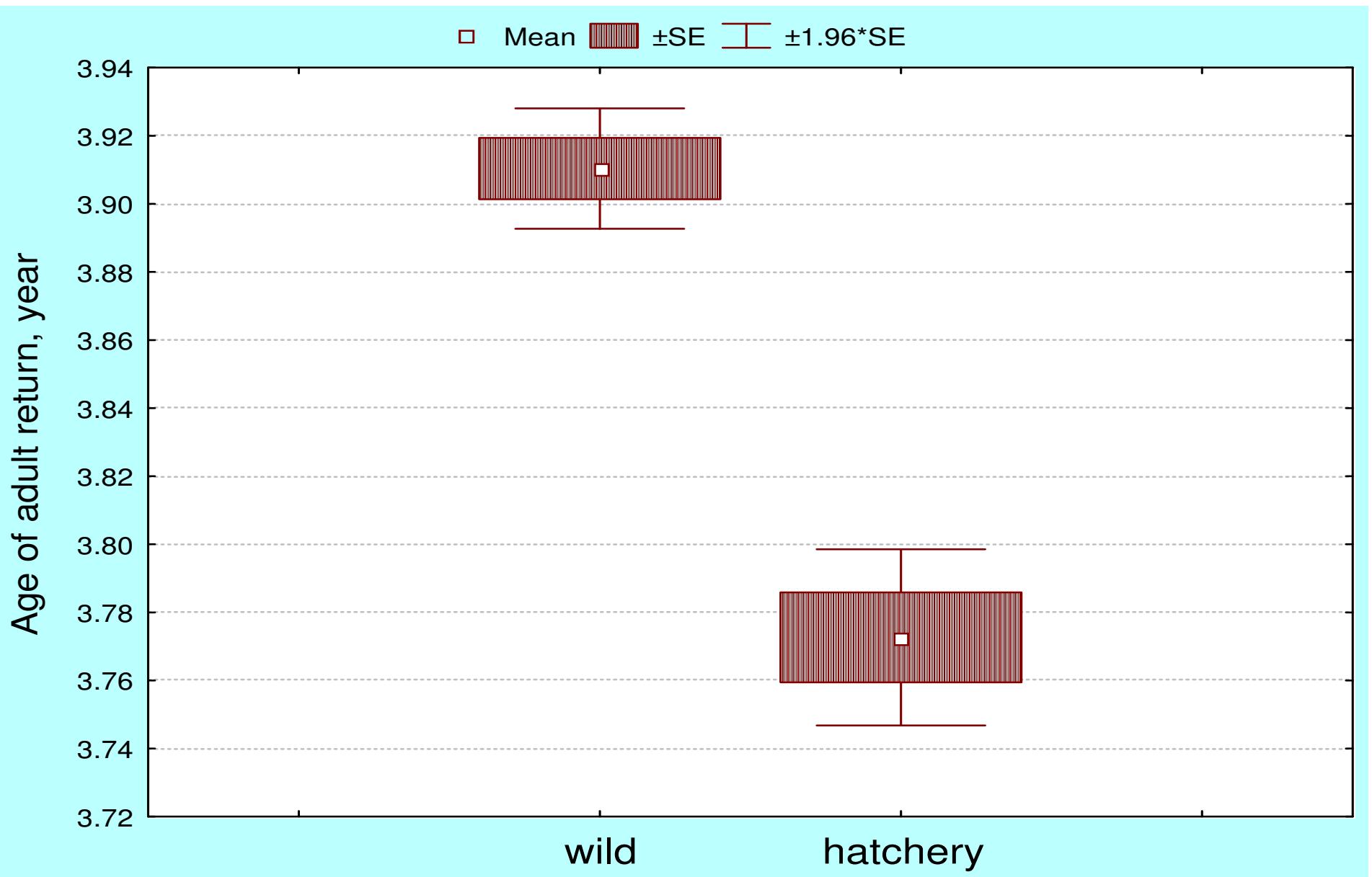




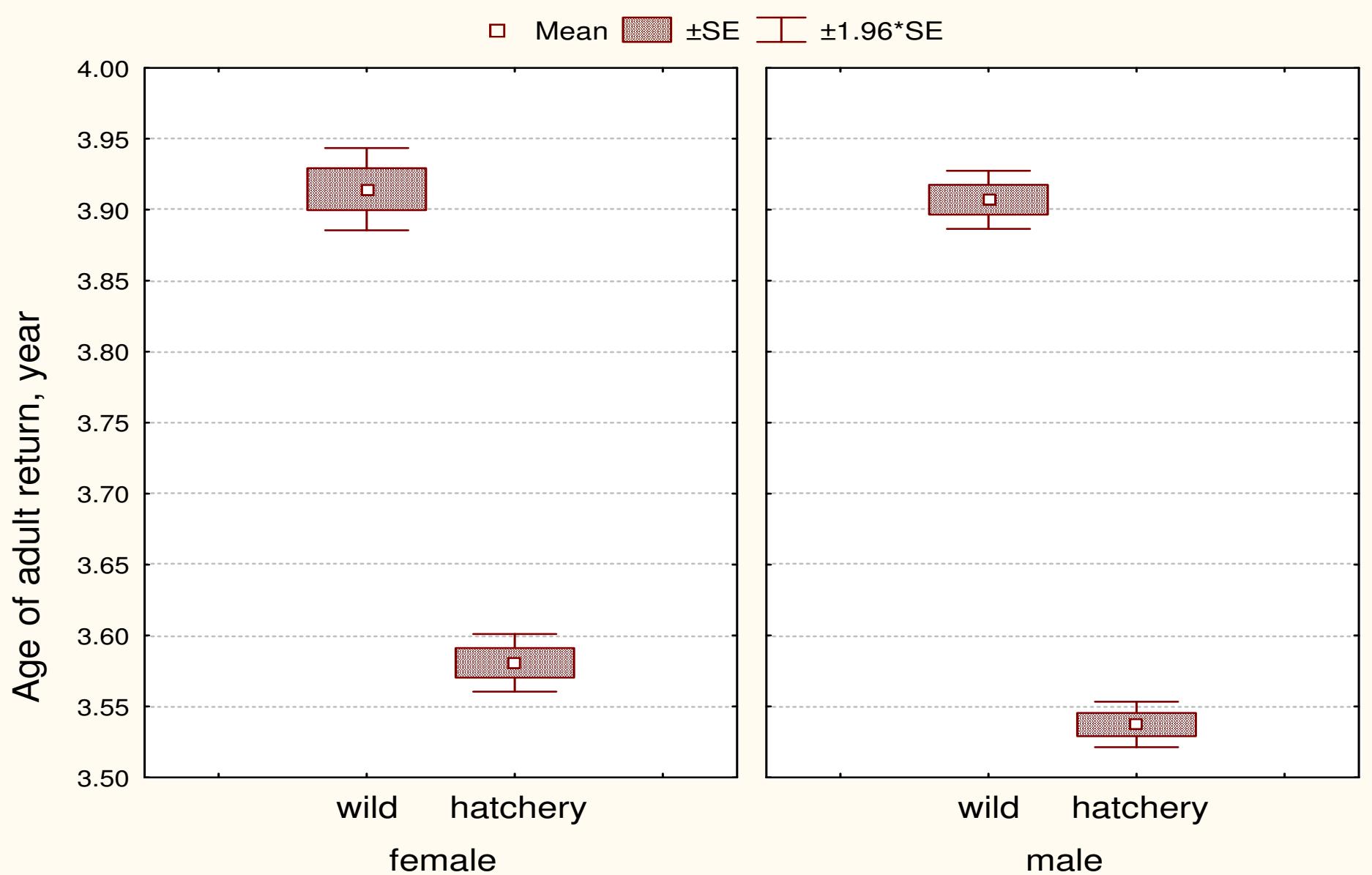
**Fig. 1.** The age of wild and hatchery adult chum salmon in Paratunka River



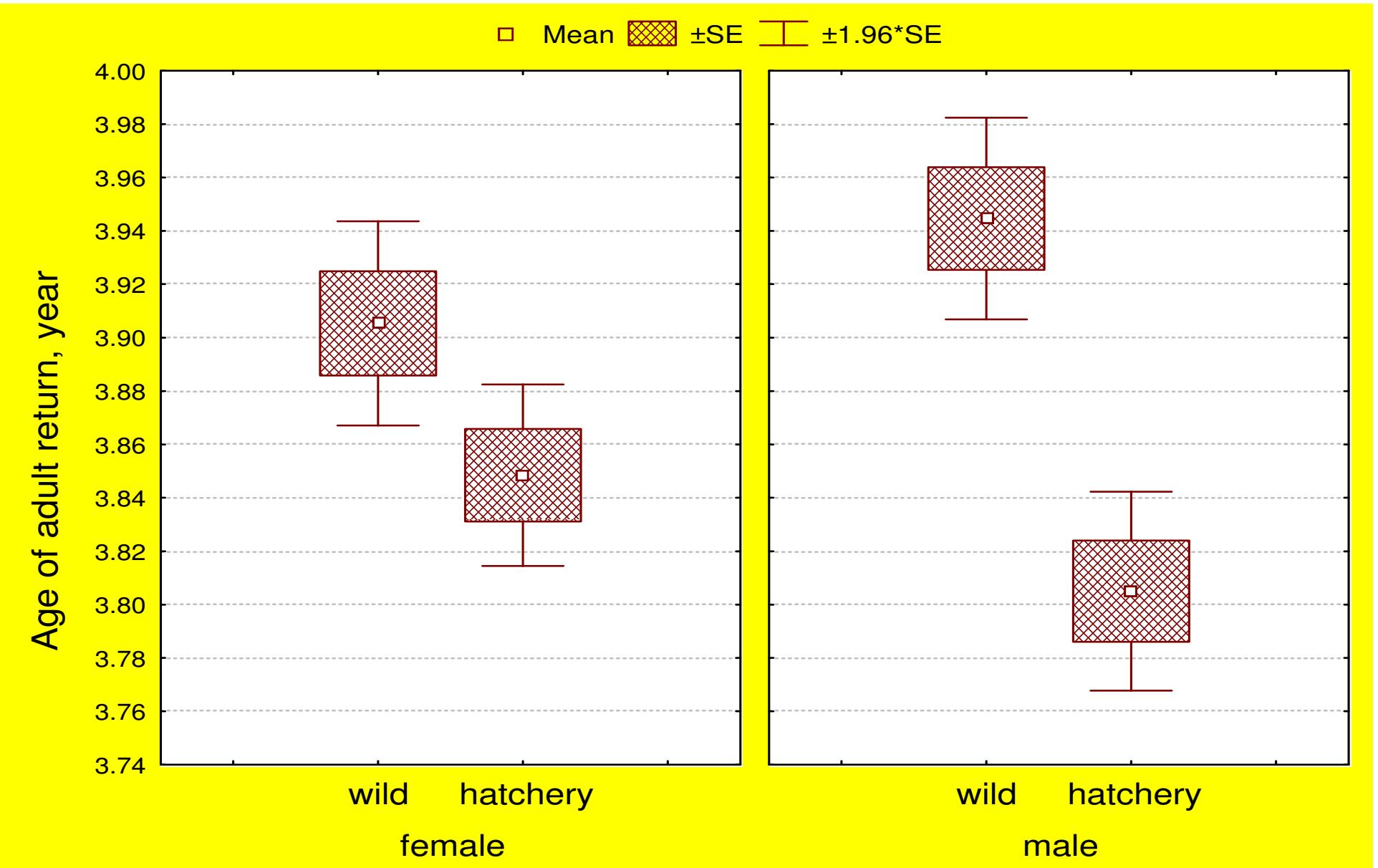
**Fig. 2.** The age of wild and hatchery adult chum salmon in Avacha River



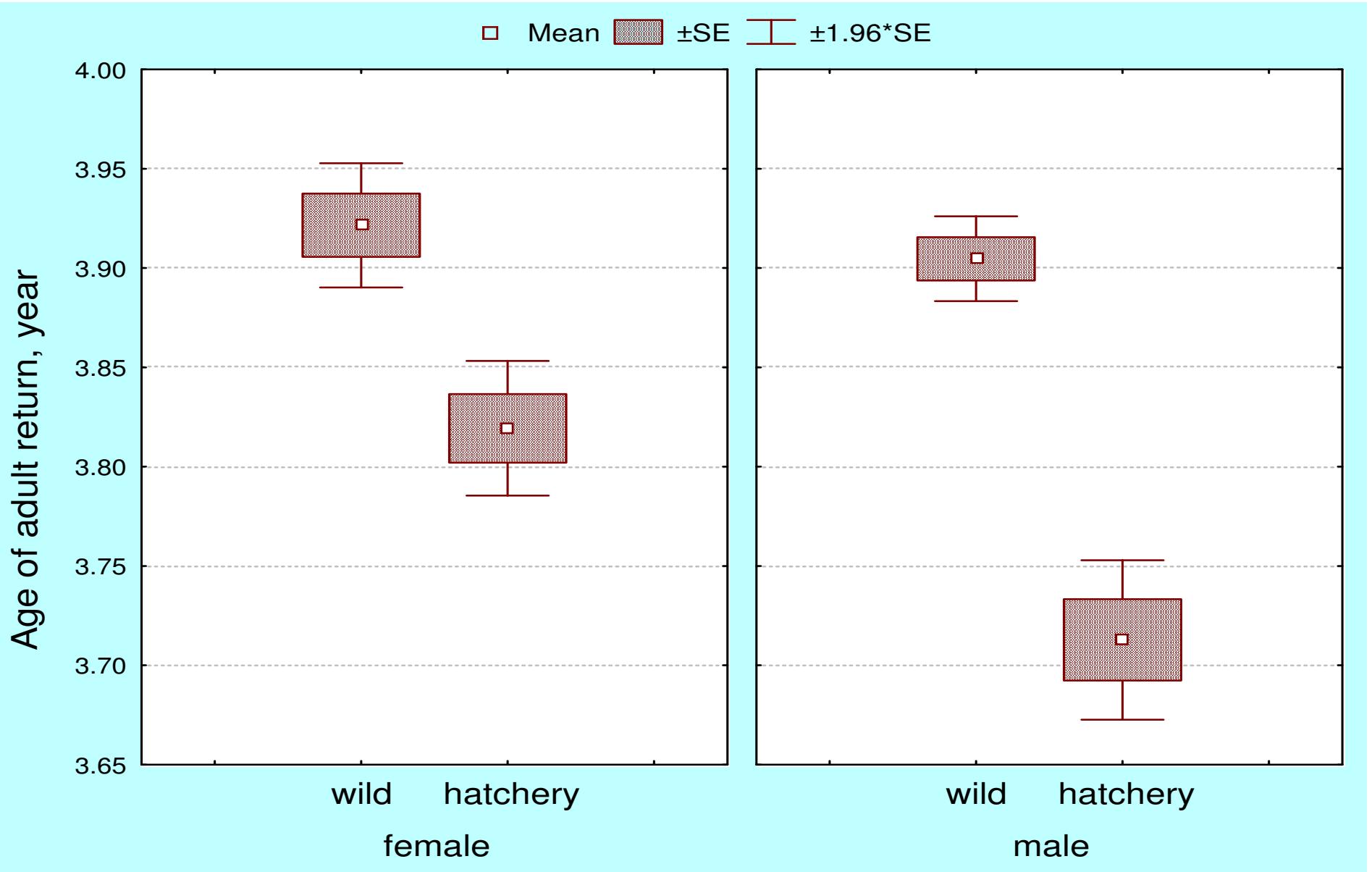
**Fig. 3.** The age of wild and hatchery adult chum salmon in Big Viluy Lake



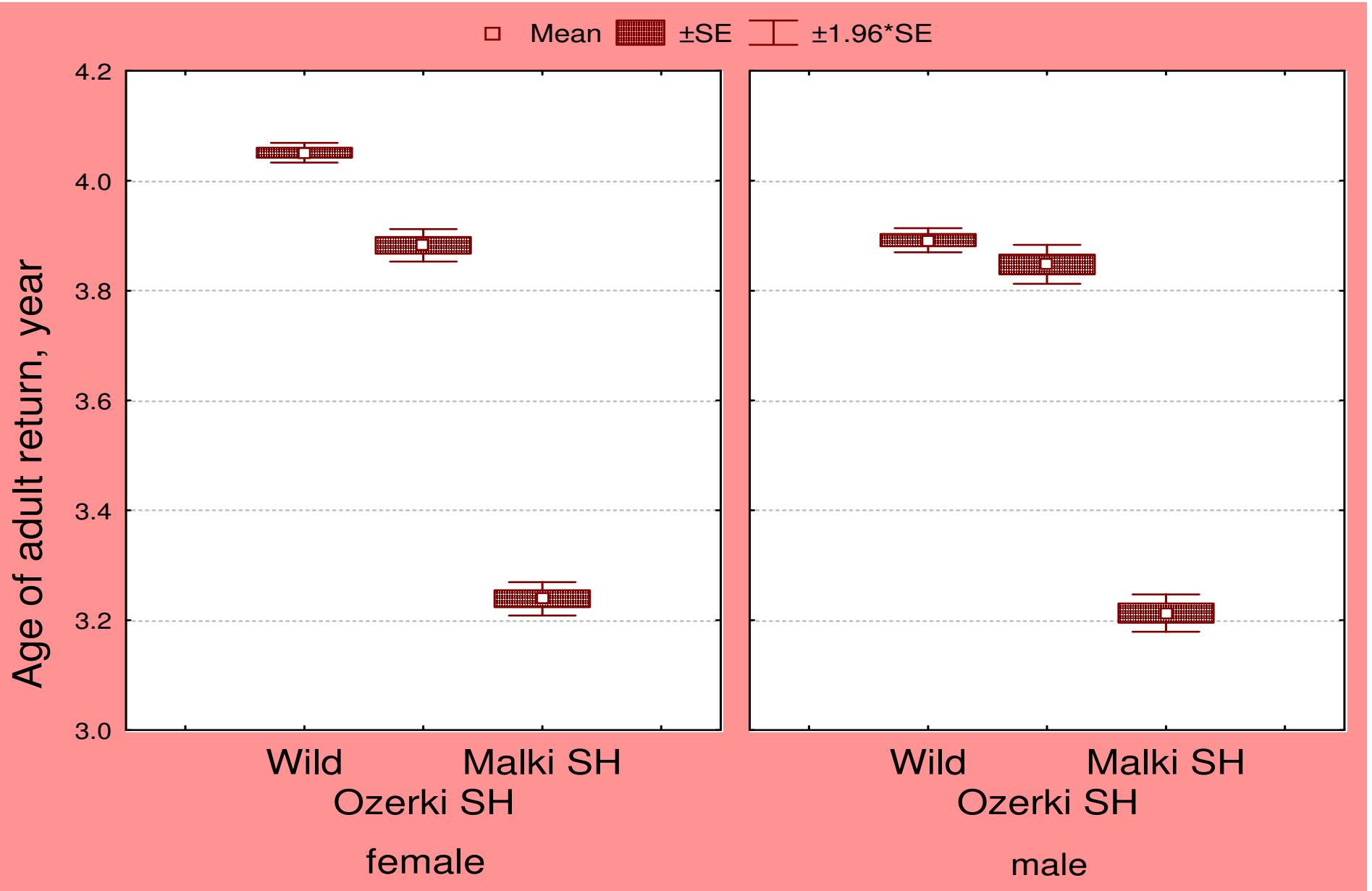
**Fig. 4.** The age of wild and hatchery adult chum salmon (male & female) in Paratunka River



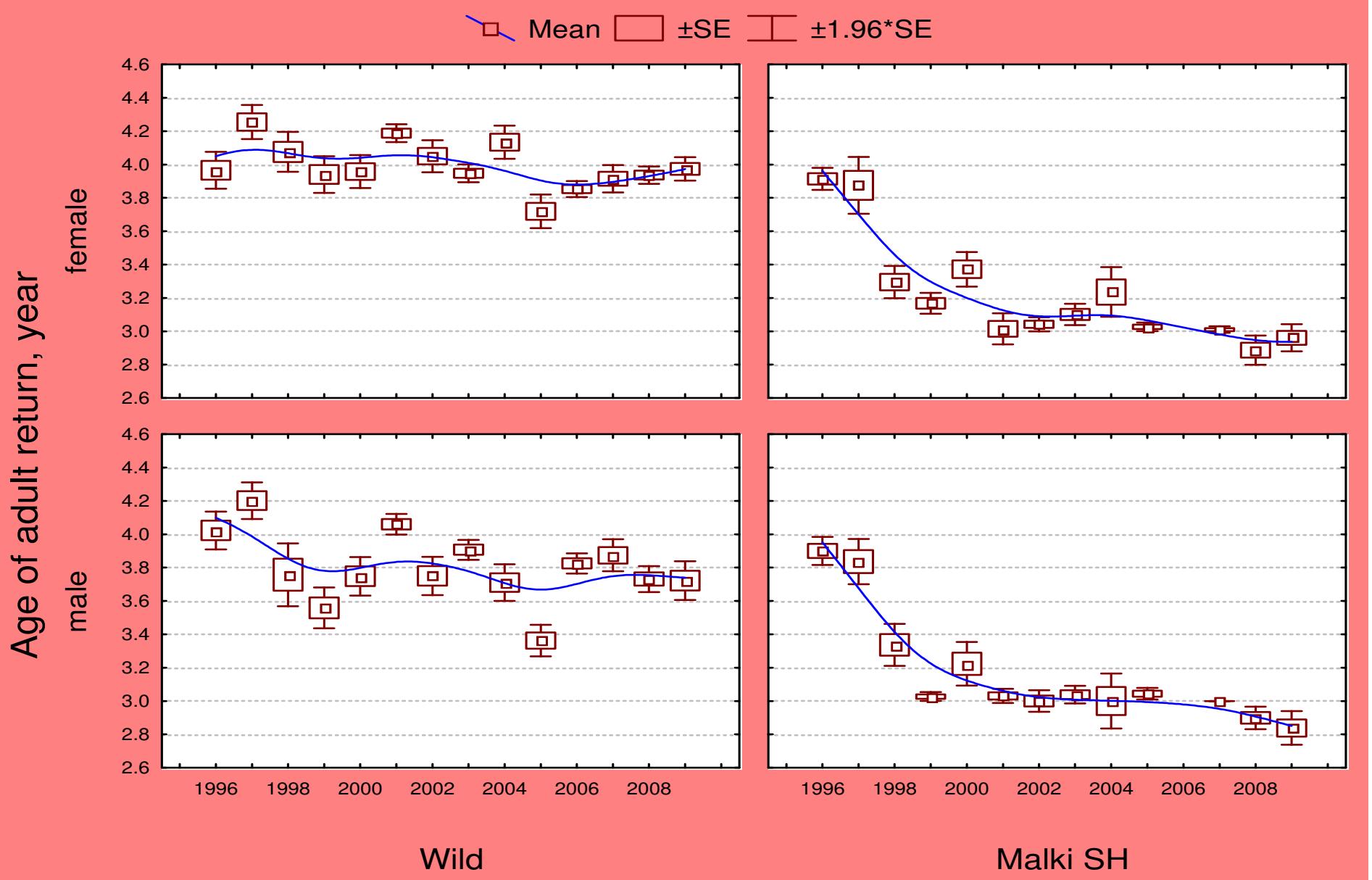
**Fig. 5.** The age of wild and hatchery adult chum salmon (male & female) in Avacha River



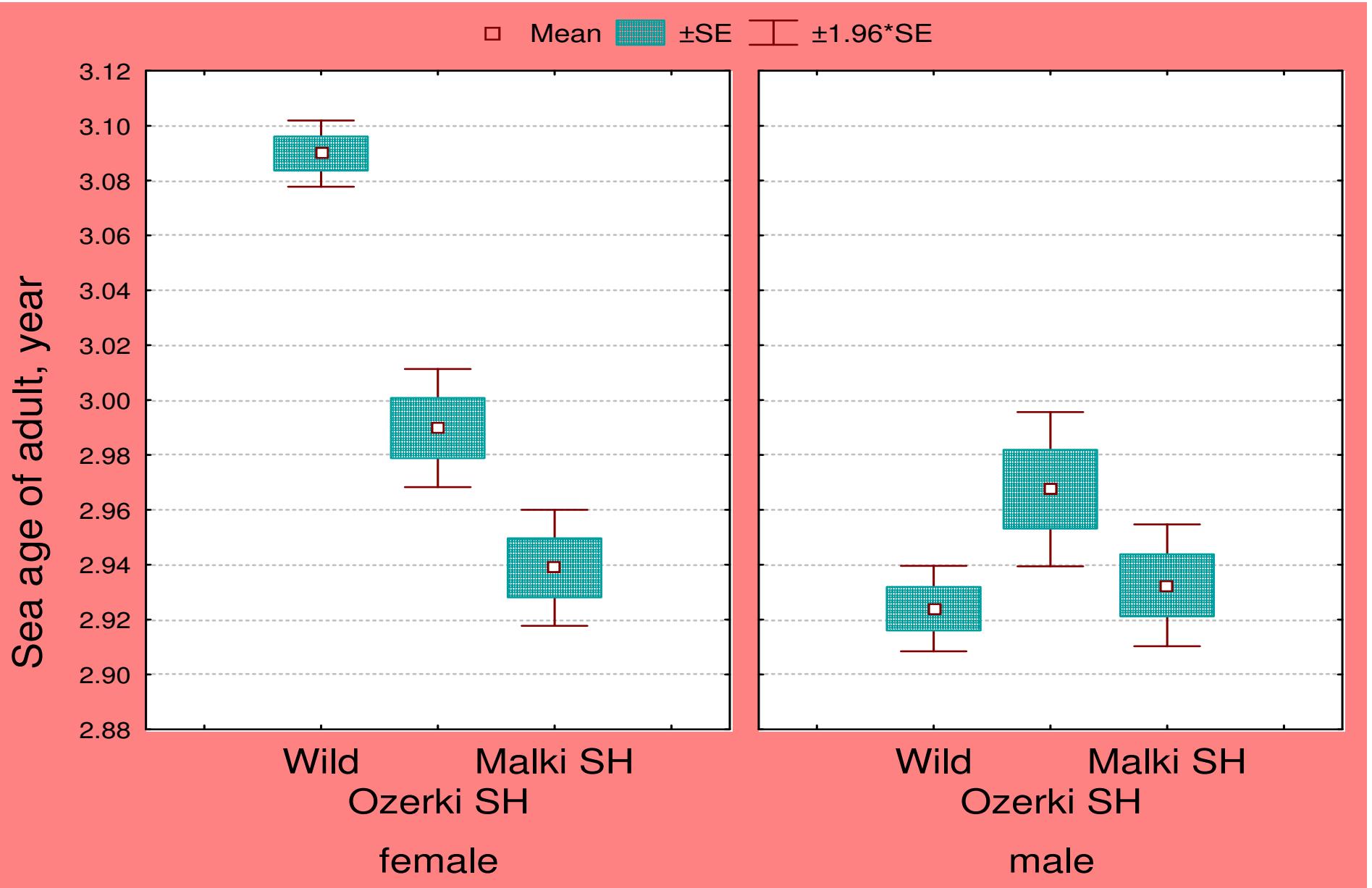
**Fig. 6.** The age of wild and hatchery adult chum salmon (male & female) in Big Viluy Lake



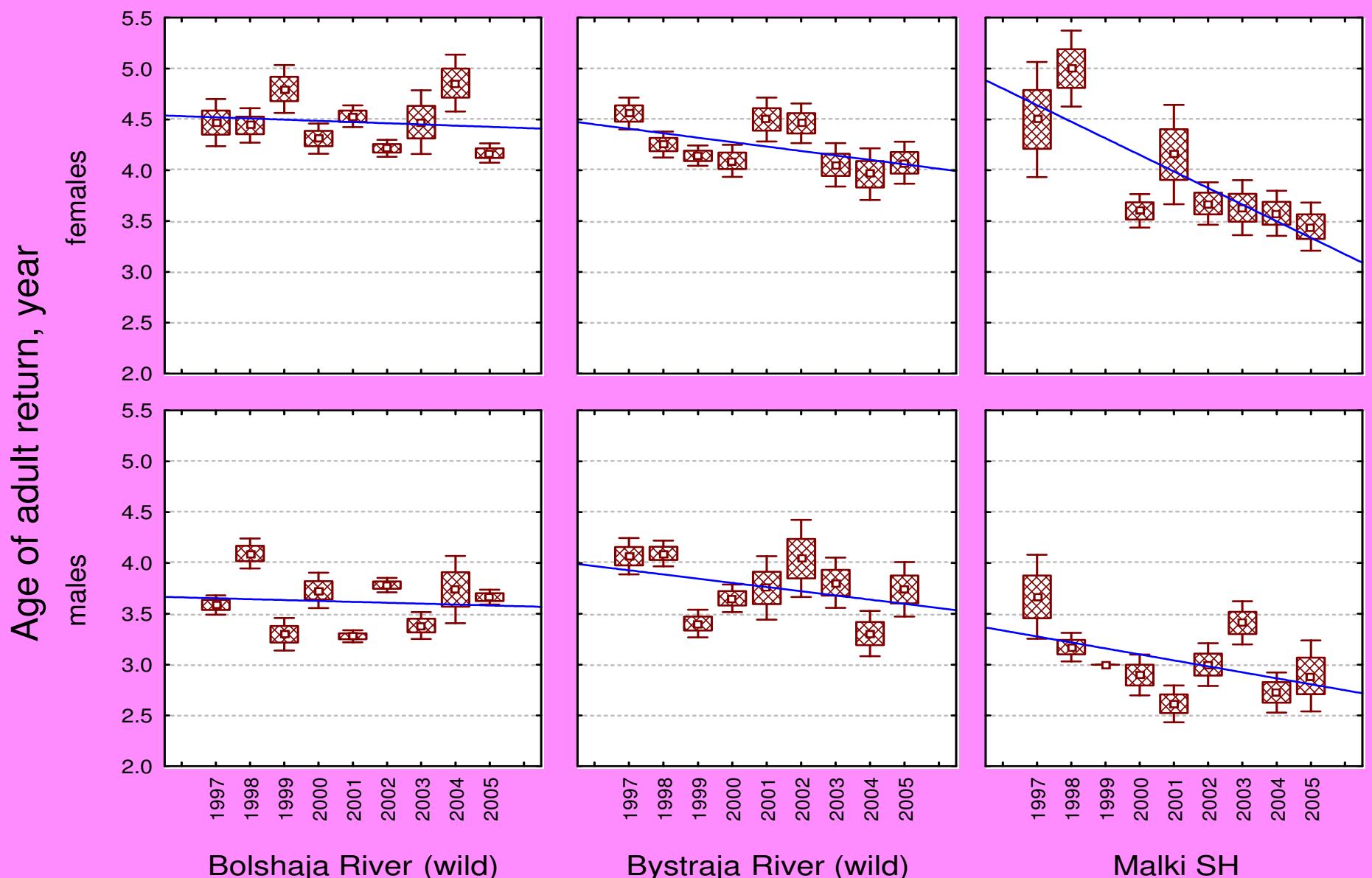
**Fig. 7.** The total age of wild and hatchery adult sockeye salmon in Bolshaja River



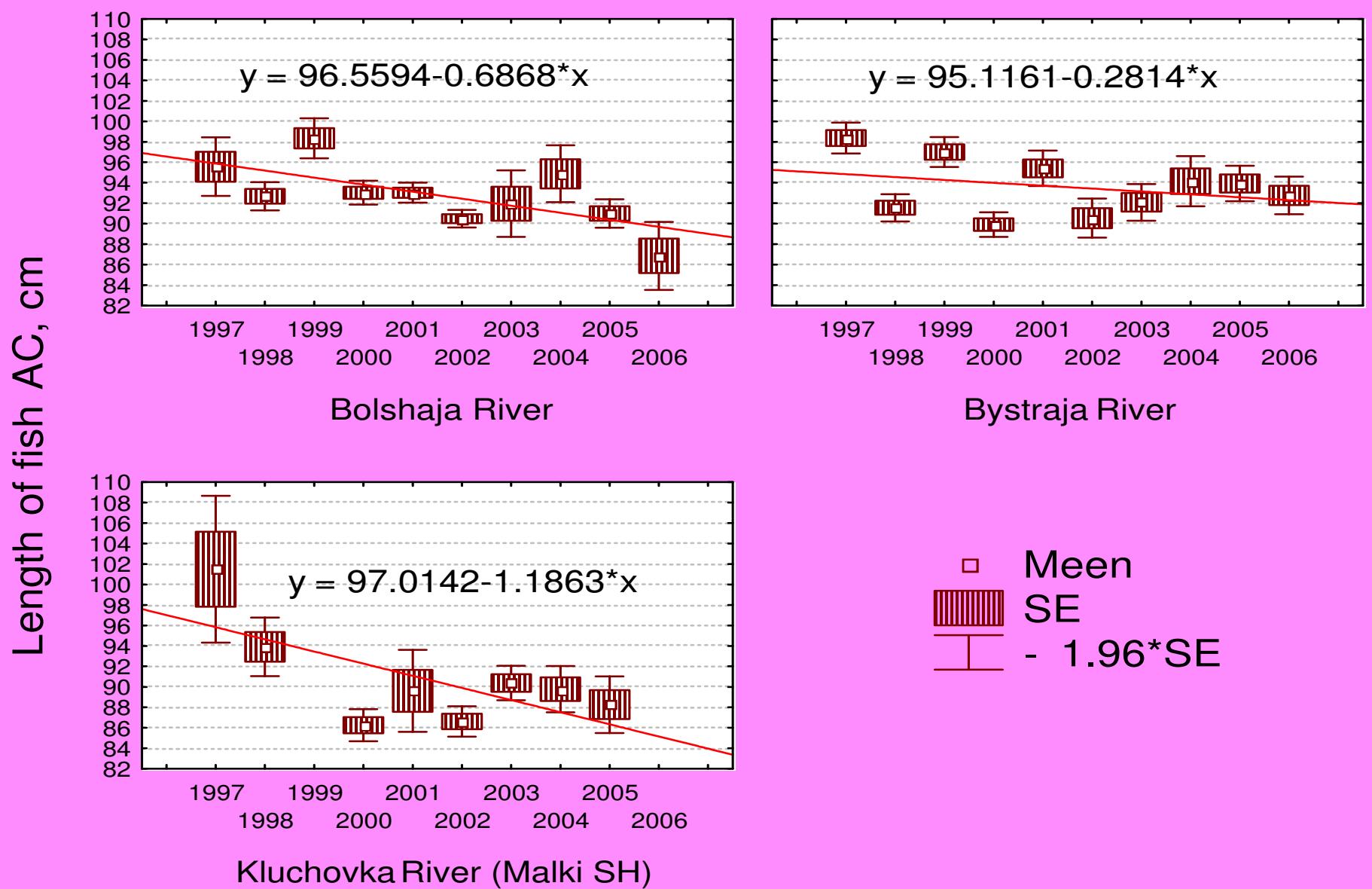
**Fig. 8.** The dynamic of total age of wild and hatchery adult sockeye salmon in Bolshaja River



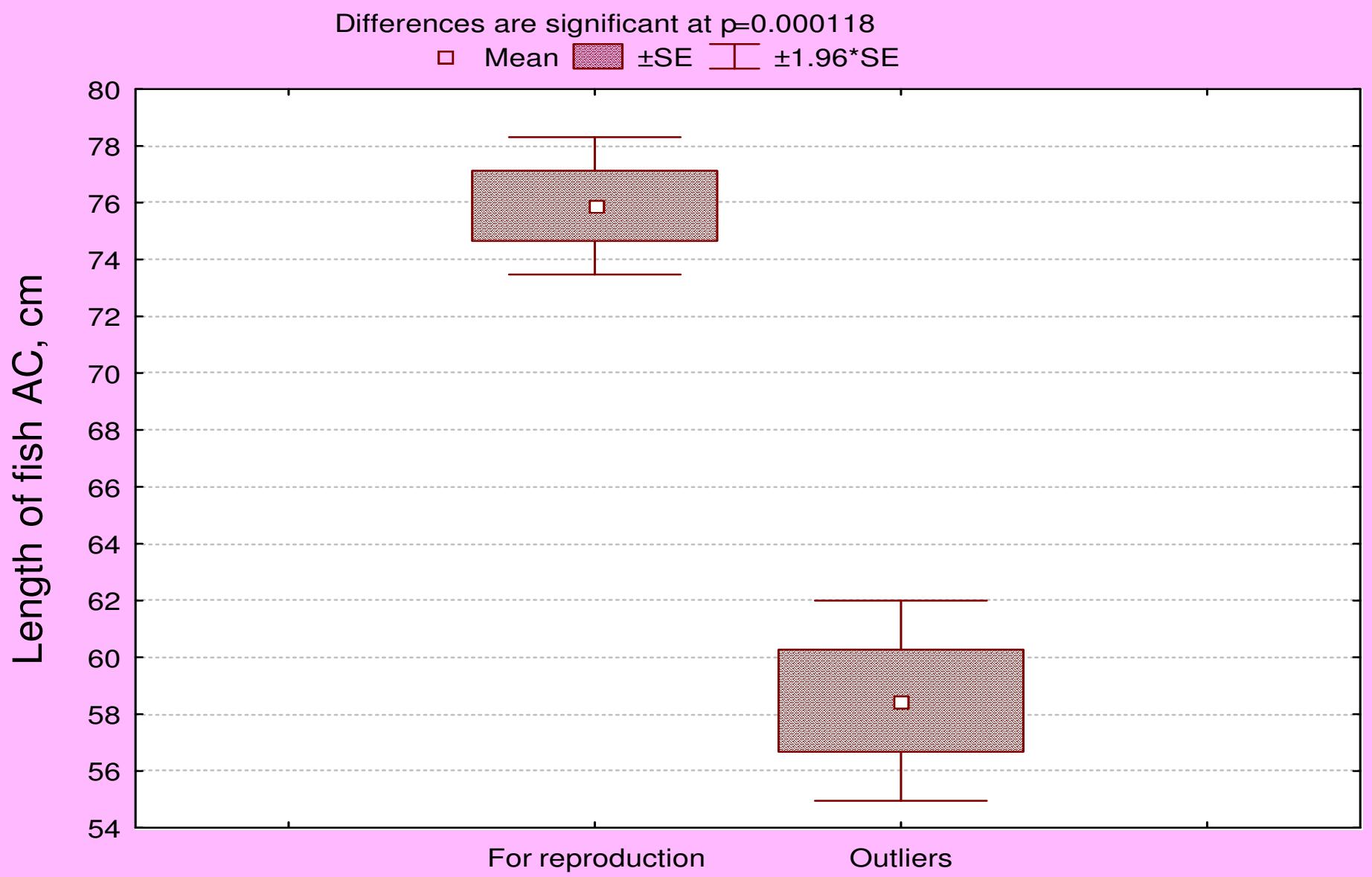
**Fig. 9.** The sea age of wild and hatchery adult sockeye salmon in Bolshaja River



**Fig. 10.** Rectilinear trends of total age of Chinook adult in Bolshaja River, Bystraja River and near the Malki SH

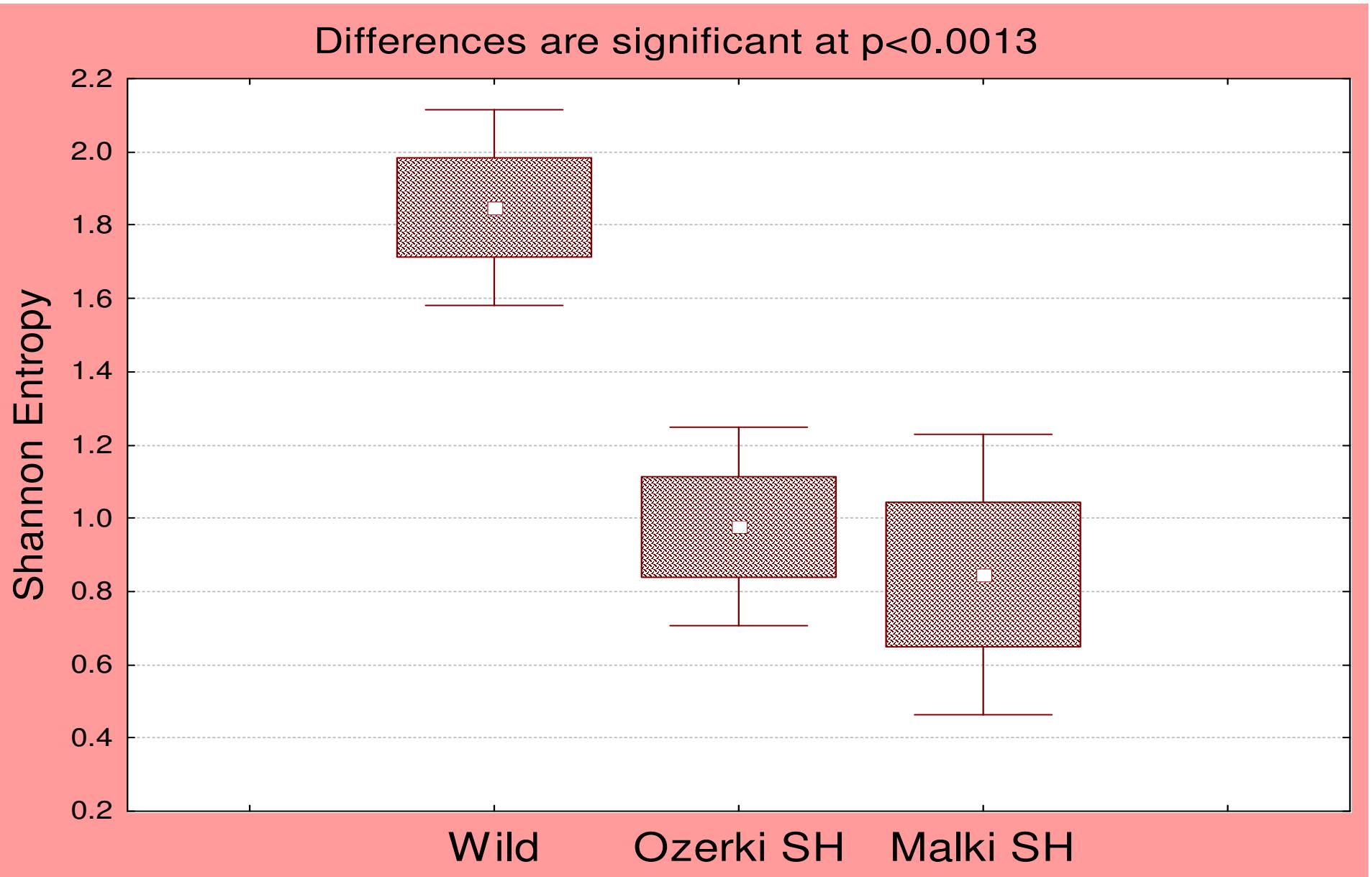


**Fig. 11.** Rectilinear trends of Chinook salmon female length in the rivers Bolshaja, Bystraja and near Malki SH

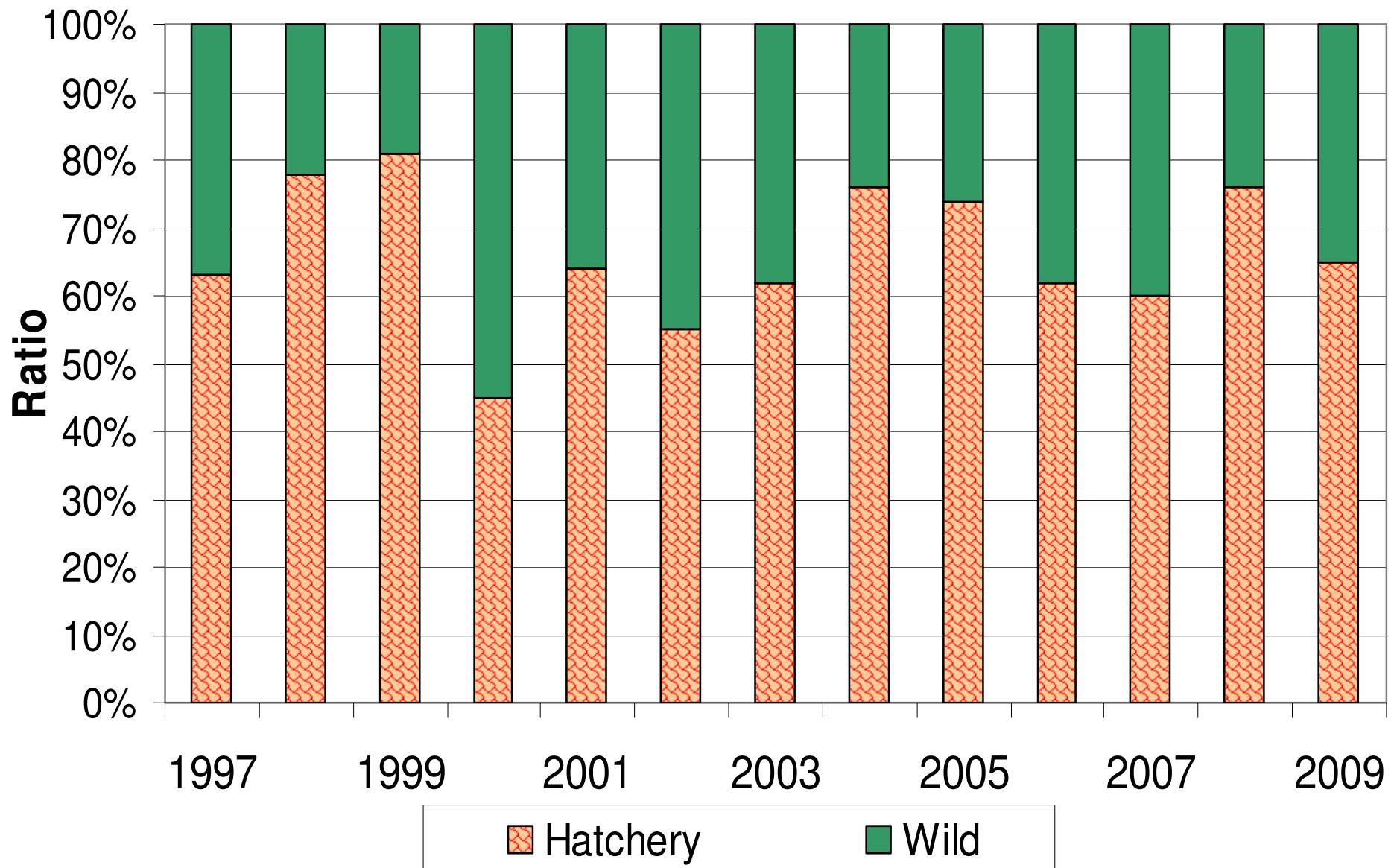


**Fig. 12.** Chinook salmon male length (AC) near the Malki SH: **for reproduction and outliers**

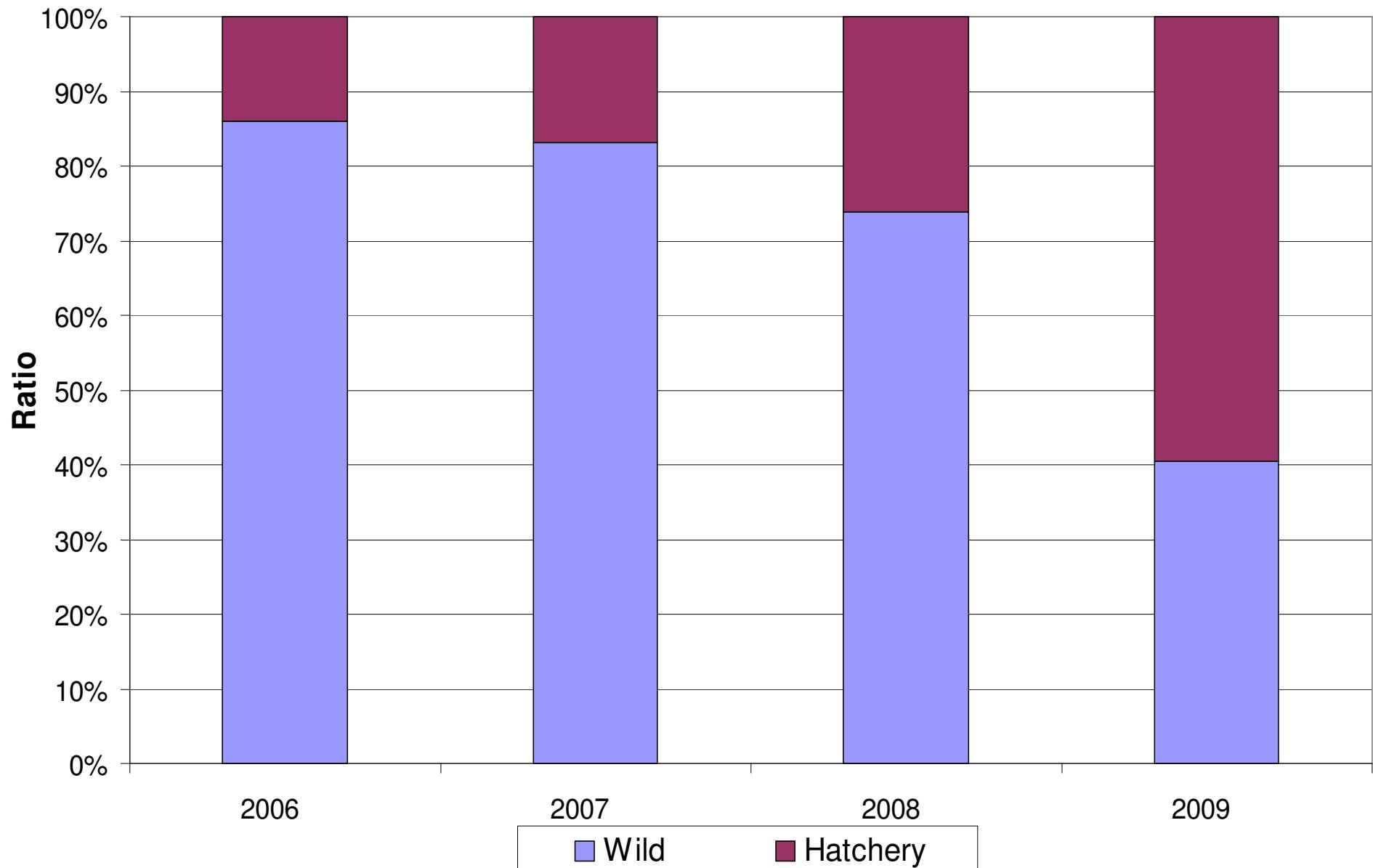




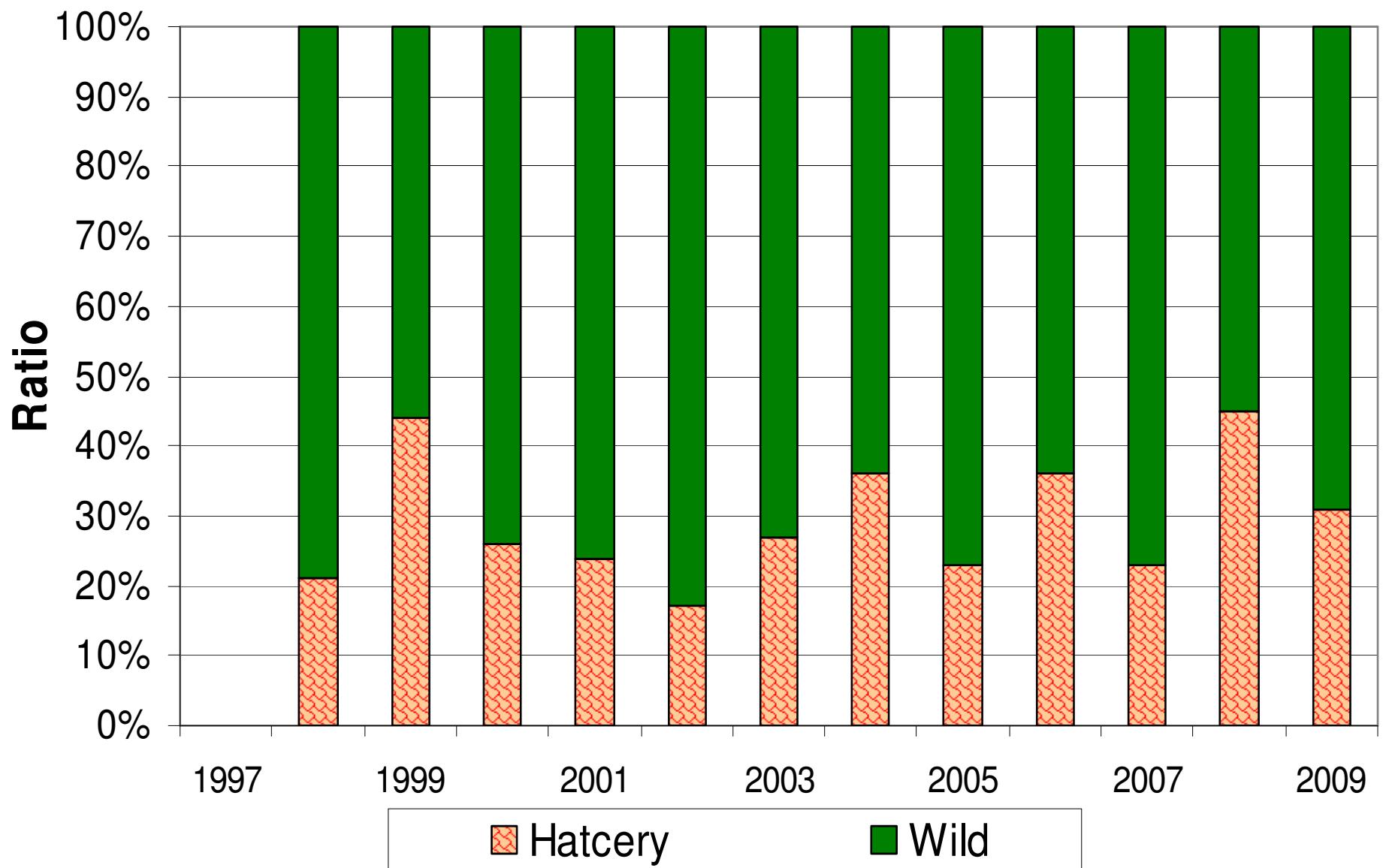
**Fig. 13.** The Shannon entropy of the age structure of hatchery and wild sockeye salmon in the Bolshaja River



**Fig. 14.** The ratio between hatchery and wild chum in middle and lower course of the Paratunka River



**Fig. 15.** The ratio between hatchery and wild chum in middle and lower course of the Avacha River



**Fig. 16.** The ratio between hatchery and wild chum salmon in the spawning grounds of Paratunka River





