NOTE ON THE SALMON AND TROUT OF JAPAN.

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In these Proceedings for 1902, Jordan and Snyder^a have given a review of the species of salmon and trout in Japan. Recently, Mr. T. Kitahara has published^b some useful criticisms on this paper, derived from his experience in the Imperial Bureau of Fisheries.

Mr. Kitahara is certainly right in thinking that the Salmo perryi of Brevoort is the trout called Ito, Salmo blackistoni of Hilgendorf. That species must therefore become Hucho perryi instead of Hucho blackistoni.

I think that Mr. Kitahara is also right in identifying the Salmo masou of Brevoort and the Oncorhynchus yessoensis of Hilgendorf with the common trout of Japan called Ame-no-uwo, Kawa-masu, or Yamabe, in its different stages of growth. This is the Salmo macrostoma of Günther, the species wrongly called Salmo perryi by Jordan and Snyder. This species should stand as Salmo mason.

Mr. Kitahara states that the humpback salmon (Karafuto-masu) in Japan as in America have black spots on the caudal fin. This species was not seen by Jordan and Snyder in Japan. The supposed humpback salmon or Yezomasu, figured by Jordan and Snyder as Oncorhynchus masou, was probably a dwarfish spawning female of Oncorhynchus keta.

Mr. Kitahara is probably right in regarding the Iwana, Salvelinus pluvius (Hilgendorf), the common charr or red-spotted trout of Japan, as inseparable from Salvelinus malma. Salvelinus kundsha, of the Kurile Islands, is however a different fish. The name Salmo milktschitch of Walbaum is earlier than Salmo kisutch Walbaum, and is based also on the silver salmon.

α Proc. U. S. Nat. Mus., XXIV, 1902, p. 567, et seq.

b Annotationes Zoologicae Japonenses, V, Pt. 3, 1904, pp. 117–120.

The species of Salmonida in Japan are therefore the following:

Oncorhynchus nerka (Walbaum); Beni-masu.

Oncorhynchus milktschitch (Walbaum); Gin-masu.

Oncorhynchus keta (Walbaum); Shaké or Saké.

Oncorhynchus gorbuscha (Walbaum); Karafuto-masu.

Salmo mason (Brevoort); Masu, Ame-no-uwo, Yamabe.

Hucho perryi (Brevoort); Ito.

Salrelinus malma (Walbann); Iwana, Ame-masu.

Salvelinus kundscha (Walbaum).

Plecoglossus altivelis (Schlegel); Ayu.

The king salmon Oncorhynchus tschawytscha (Walbaum) is not yet known from Japanese waters.