## Herring management study begins

The booming herring roe fishery is now under study by the Alaska Department of Fish and Game, which has commissioned on which the fishermen find it. the University of Alaska, Juneau to conduct a major study in ring roe fishing in Alaska is done order to improve the state's in the Togiak area of Bristol Bay management of the fishery. The where the herring grow to one UAJ study, to be conducted by and a half pounds and up to 16 Dr. Mike Stekoll of the fisheries inches long. Most of the resdepartment, will look into pro- search will be conducted there. ductivity, survival and growth rates

the Japanese consider it a deli- years and will be funded by the

cacy, "Komochi kombu," as the Japanese call it, is eaten raw and served with the brown seaweed

Stekoll said most of the heralong with some comparative research in southeastern. The cost

Although most Americans of the project is estimated at have never tasted herring roe, \$93,000 over the next four Department of Fish and Game.

There are two kinds of herring roe fisheries-sac roe, collected by purse seiners and gill netters in commercial boats, and roe-on-kelp, collected by people using a bucket and a small skiff.

The sac roe fishery, by far the larger of the two, produced \$6.7 million in sales in 1979, according to the Bristol Bay Native Association. In the Togiak area, the first large harvest took place in 1977. In 1979, a total of 10.115 metric tons of herring was harvested, falling short of the 12,000 metric ton limit.

The roe-on-kelp fishing is done in the intertidal area, and is an important part-time income for many people in the Bristol Bay area each spring.

collecting 415,000 pounds of roe, about 4 percent of the total value of the sac roe fishery.

The key to the roe-on-kelp fishery is the rockweed, a brown algae, on which the herring deposit layer upon layer of clear eggs during the spawning season. Both the kelp and the roe are harvested by the fishermen.

Stekoll's study will gain important information about the growth rate, life cycle and recolonization rates of the seaweed in Alaska waters. "For instance, if kelp is able to recover completely in one year after a 50 percent harvest, the quota

It requires no major invest- could be raised, resulting in ment in fishing gear. The rake thousands of dollars of additionand bucket fishermen earned a al income for the fishermen," total of \$269,000 in 1979 by Stekoll said. The present quota is set at 10 percent of the estimated kelp available in the area.

> To help conduct the study. Stekoll will employ two graduate students in fisheries. Marshal Kendziorek and John Mc-Connaughy will begin working this spring in three areas of Metervik Bay, which will be off limits to commercial fishing.

> The students will stay at a Fish and Game camp at the bay from May 1 to July 15. The camp consists of a few wall tents and food supplies will be flown in weekly from Dillingham.