

# Bottom Charts

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ent on the offshore banks?

"Hydrographic conditions proved to fall within those limits of conditions from which commercial shrimp had previously been taken. The offshore waters, therefore, seem habitable to commercial shrimp at any season of the year.

"Several commercial trawlers which served as collectors of data during the survey reported enough shrimp to furnish an indication that there still may be, at some time of the year, abundances of shrimp offshore. In the event of such possibility, the charting of the bottom, done by the survey, assumes considerable importance in the exploitation of the offshore banks.

"The bottom from Cape Lookout to Little River inlet was worked over with a recording fathometer and lead line. Using the lead line, types of bottom were determined and the limits of such bottom types were charted with a recording fathometer. Following the conclusion of the field operations, all bottom types were charted. All net tows were added to this chart with notations regarding the action of the net during the tow and whether or not the net was torn.

"From this master chart, it was possible to separate the coastal waters into areas depending upon the bottom type. Three types of bottom are designated. In certain areas, soundings showed chiefly rocky or coral bottom. The fathometer showed that the bottom was irregular or rough. Net tears were frequent within these areas. These are designated as dangerous areas on the chart.

"Other areas, listed as caution areas, have irregular bottom, coarse or gravel sediments which chafed the nets. Within these areas nets were never actually lost although minor damages sometimes were found. The third type of area is that in which the bottom is sand or mud, in which the contours are gentle, in which nets were never damaged and which is considered safe for trawling."

Use of the bottom charts promise to make shrimping more profitable, for what has a fisherman gained from a good haul in the morning if his nets are torn in the afternoon?

Operation of North Carolina state patrol boats cost \$70,887.50 in 1949-50.

# This One Fools Fish; Human Beings Bite Too



A. L. Waite wades in a locust plague of his own making. The artificial grasshoppers (inset) with built-in hooks make fishing child's play, he says. AP Newsfeatures

Tulsa, Okla.—A grasshopper lure so lifelike that not only fish but people, too, bite at it is being marketed here.

Molded in green and brown latex, the handmade insects are the trickiest fraud yet pulled on our piscatorial friends.

"It's almost shameful," says merchandiser A. L. (Billy) Waite, "how fish bite at these things."

Waite knew he had something when his friends flicked at them while pinned in jest to his shirt collar or lapel.

An avid angler himself, the Tulsan stumbled on the lures while fishing near Windsor, Mo., where they are made in a small plant.

He immediately snapped up exclusive sales rights and is working out a mass production scheme to supply the nation.

"The secret of the thing," Waite

points out, "is the technique of molding it with hollow insides, so it floats. On a fly line it sits on the water for all the world like a real 'hopper'."

Wives of fishermen, too, are interested. "They put clasps in the bugs and wear them for costume jewelry," Waite said.

### Paired Ships Get Fish

St. John's, Nfld.—(AP) — The "pairs" system of Spanish fishing vessels on the Grand Banks has Newfoundland fishermen complaining. The Spaniards use a dragnet a quarter-of-a-mile wide hauled by two vessels. Able to stay at sea for more than a month, the foreign ships are taking from 80 to 100 tons of fish in this manner.

### Two Shrimp Scientists Will Attend Miami Meeting

Carter Broad and Dr. William Sutcliffe, shrimp specialists on the Institute of Fisheries Research staff, Morehead City, will attend a shrimp symposium at Miami today and tomorrow.

This meeting, to which shrimp

scientists have been invited, has been called in the hopes of ironing out difficulties encountered in the shrimping industry on the South Atlantic and Gulf coasts.

Invitations to scientists have been issued by Wayne Heydecker of the Atlantic States Marine Fisheries commission.

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