



# COMMERCIAL FISHERIES REVIEW



A REVIEW OF DEVELOPMENTS AND NEWS OF THE FISHERY INDUSTRIES  
PREPARED IN THE BRANCH OF COMMERCIAL FISHERIES

A. W. Anderson, Editor

R. T. Whiteleather, Associate Editor

J. Pileggi, Assistant Editor

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no. 2, pp. 89-103, August 1951), 14 p., illus., printed. The Marine Laboratory, University of Miami, Coral Gables, Fla. The phyllosoma larvae of the spiny lobster (*Panulirus argus*, Latreille) were obtained from plankton hauls made in the western Atlantic and Caribbean. Eleven stages were identified of which the last is probably the final stage before metamorphosis. Stage one was obtained from freshly-hatched eggs. It was shown that the larvae may be carried long distances by currents and that some of the larvae taken off the Florida coast were hatched much farther south, according to this report.

A Report on the 1950 Albacore Fishery of British Columbia (THUNNUS ALALUNGA), circular No. 23, 7 p., illus., processed. Pacific Biological Station, Nanaimo, B. C., Canada, 1951. Because of the interest shown in the first three circulars on the British Columbia albacore fishery, this fourth report was prepared. Primarily for the use of those actively engaged in the various phases of the fishery, it contains sections on results from length measurements at three ports of landing, the examination of log-book records made by fishermen, and a report of the 1950 tagging operations. A section on offshore water temperatures is included from information supplied by the Pacific Oceanographic Group.

Spawning and Setting of Oysters in Relation to Seasonal Environmental Changes, by Robert M.

Ingle, Contribution No. 57 (Reprinted from Bulletin of Marine Science of the Gulf and Caribbean, vol. 1, no. 2, pp. 111-135, August 1951), 25 p., illus., printed. The Marine Laboratory, University of Miami, Coral Gables, Fla. This report discusses the environmental factors controlling the spawning of oysters in the Apalachicola area, which were investigated with particular regard to temperature. The principal literature is reviewed. Regular observations of temperature, salinity, and spat-fall intensity were made at nine stations covering a distance of approximately 30 miles of Apalachicola Bay. Isolated spawning did not occur below temperatures of 22.5° C. Mass spawning took place only when the temperature rose to at least 26.0° C. On two occasions, mass spawning occurred simultaneously at all stations in the eastern part of the Bay but not in the western part. The average temperature is lower in the western part than elsewhere and also fluctuates more rapidly. Since the temperature necessary for mass spawning is higher than reported elsewhere in the United States, the possibility has been suggested that there are physiological races of oysters. In the absence of observations on inheritance of this characteristic when oysters are transplanted, it is considered that the interaction of a number of environmental factors upon the maturing gonad may modify the temperature reaction and that it is not necessary to postulate racial differentiation.

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