UNITED STATES DEPARTMENT OF THE INTERIOR STEWART L. UDALL, SECRETARY

> FISH AND WILDLIFE SERVICE CLARENCE F. PAUTZKE, COMMISSIONER

BUREAU OF COMMERCIAL FISHERIES DONALD L. MCKERNAN, DIRECTOR DIVISION OF RESOURCE DEVELOPMENT RALPH C. BAKER, CHIEF



A review of developments and news of the fishery industries prepared in the BUREAU OF COMMERCIAL FISHERIES.

Joseph Pileggi, Editor G.A. Albano, H. M. Bearse, and H. Beasley, Assistant Editors

Address correspondence and requests to the: Chief, Fishery Market News Service, U.S. Bureau of Commercial Fisheries, Wyatt Bldg., Suite 611, 777 14th Street, NW., Washington, D.C. 20005.

Publication of material from sources outside the Bureau is not an endorsement. The Bureau is not responsible for the accuracy of facts, views, or opinions contained in material from outside sources.

Although the contents of the publication have not been copyrighted and may be reprinted freely, reference to the source is appreciated.

Use of funds for printing this publication has been approved by the Director of the Bureau of the Budget, May 1, 1963.

5/31/68

## CONTENTS

COVER: Soviet trawler <u>Krym</u> near United States North Pacific coastal waters off Washington State. In mid-July 1963, the 125-foot Soviet trawler was operating 50 to 75 miles from the Washington coast. The vessel was observing fish stocks off the entrance to the Strait of Juan de Fuca. The vessel is equipped for otter-trawl and gill-net fishing. It carries a hydrographic winch on the forward deck. The masts of the vessel hold radar and meteorological equipment.

### Page

- 1 .. New Whiting Products Tested at University of Massachusetts Annual School-Lunch Conference, by Kevin J. Allen and Edward H. Cohen
- 5 ..Length-Weight Relationship and Stomach Contents of the Swellfish (<u>Spheroides maculatus</u>) in the York River, Virginia, by Peter A. Isaacson

<ul> <li>Page TRENDS AND DEVELOPMENTS: Fishing Vessel and Gear Developments:</li> <li>8 Equipment Note No. 14 A Light Box for Photographing Fish and Invertebrates at Sea, by Lael L. Ronholt Alaska:</li> <li>11 Japanese and Soviet Fisheries in Bering Sea and Gulf of Alaska</li> <li>12 Biologists Agree on Dixon Entrance Salmon Reports</li> <li>12 Japanese Plan Alaska Fish Plant</li> <li>12 New Fishery Firm in Kenai</li> <li>13 Dungeness Crab Industry at Metlakatla Ex- pands</li> </ul>	<ul> <li>Page TRENDS AND DEVELOPMENTS (Contd.): Alaska Fisheries Investigations (Contd.):</li> <li>14 . Ugashik Red Salmon Smolts Highest on Record ord California:</li> <li>14 . Pelagic Fish Population Survey Continued</li> <li>15 . San Francisco Bay Investigations</li> <li>16 . Dungeness Crab Tagging Operations and Growth Studies</li> <li>17 . Pelagic Fish Population Survey Continued</li> <li>20 . Albacore Tuna Migration Studies and Tagging</li> <li>21 . Investigation of Fish Losses From DDT- Treated Irrigation Water Central Pacific Fisheries Investigations:</li> </ul>
<ol> <li>Salmon Fishermen Demand Higher Prices</li> <li>Fishery Trends at Kodiak</li> <li>ARA Funds Requested for Fishery Research</li> </ol>	<ol> <li>Ocean Current Studies in Central North Pa- cific Aided by Parachute Drogues</li> <li>Seasonal Distribution of Young Albacore Tuna</li> </ol>
Alaska Fisheries Investigations: 13 . Salmon Spawning Area Contract Negotiated with University of Alaska	Determined by Study of Predators <sup>1</sup> Stomachs

Contents continued page II.

## COMMERCIAL FISHERIES REVIEW

## CONTENTS (CONTINUED)

Page		Page
8 -	TRENDS AND DEVELOPMENTS (Contd.): Federal Purchases of Fishery Products:	TRENDS AND DEVELOPMENTS (Contd.): Oceanography (Contd.):
24	Department of Defense Purchases, January-	41 You Can Help in the Study of Ocean Currents
0.4	February 1963	41 Oceanographic Data Display System Being
24		Developed Ovsters:
	Shrimp Proposed Fisheries Laboratory:	42 Maryland Observations on 1963 Spatfall
24	New Marine Biological Laboratory for Bu-	Pollution:
	reau of Commercial Fisheries Being Built	43 Oxygen Deficiency Resulting from Secondary
	in California	Pollution Destroys Fish in Potomac River
	Fish Oils:	44 Radioactive Waste Disposal Problems
25	Flavor Change Indicated During Oxidation of	44 Effects of Pesticides on Fish Studied at
	Menhaden Oil Fractions	Tishomingo Fish Hatchery
	Great Lakes Fisheries Exploration and Gear	Salmon:
25	Research: Results of Trawling Explorations in Northern	44 Excessive Escapement Threatens North Pa- cific Run to Fraser River
20	Lake Michigan	45 "First Returns" Reported on Huge Fish
	Great Lakes Fishery Investigations:	Hatchery Evaluation Project in Northwest
28	Western Lake Superior Fishery Survey Con-	Shrimp:
	tinued	46 United States Shrimp Supply Indicators, July
29	Environmental Conditions in Apostle Islands	1963
	Area of Lake Superior Studied	Transportation:
20	Gulf Fishery Investigations:	46 . New Rail-Barge Between Southeastern Alaska
29	Shrimp Distribution Studies Hawaii:	and British Columbia in Service Tuna:
30	Skipjack Tuna Landings, January-June 1963	46 Atlantic Tuna-Oceanographic Studies
	Industrial Fishery Products:	United States Fisheries:
	U.S. Fish Meal and Solubles:	47 Commercial Fishery Landings, January-
30		June 1963
	U.S. Fish Meal, Oil, and Solubles:	48 Fish Sticks and Portions Production, April-
30	Production, July 1963 Production, June 1963	June 1963
31	Production, June 1963	U.S. Fishing Vessels:
31 31		49 Documentations Issued and Cancelled, June 1963
01 · ·	Minerals	50 Financial Assistance for Vessels and Gear
32		Available from the Fisheries Loan Fund
	in Animal Nutrition	50 Mortgage Insurance Program Assists Financ-
	Irradiation Preservation:	ing of Vessel Construction
33	New Method of Assessing Fresh FishQuality	50 New Fishery Research Vessel of Bureau of
0.0	Studied	Commercial Fisheries Visits Nation's
33	Experiments on Microwave Pasteurization of Crab Meat Promising	Capital U.S. Foreign Trade:
33	Atomic Energy Commission Builds Irradia-	51 Airborne Imports of Fishery Products,
00	tion Preservation Laboratory in Massachu-	March-April 1963
	setts	52 Edible Fishery Products, June 1963
	Maine Sardines:	52 Imports of Canned Tuna Under Quota
34	Canned Stocks, July 1, 1963	53 Imports of Fish Meal and Scrap by Customs
24	Marketing:	Districts, June 1963 Wholesale Prices:
34	Edible Fishery Products Marketing Pros- pects in Second Half of 1963	Wholesale Prices: 53 Edible Fish and Shellfish, July 1963
	North Atlantic Fisheries Investigations:	FOREIGN:
35		International:
	ducted	Europe:
37	. Summer Distribution and Abundance of	55 Fishery Problems Discussed at Meeting in
	Groundfish Species Studied	Ostend, Belgium
2.0	North Pacific Exploratory Fishery Program:	European Free Trade Association:
38	Abundance and Distribution of Albacore Tuna	56 Proposed West European Fisheries Con-
39	and Other Pelagic Species Studied Pelagic Trawl Efficiency in Catching Salm-	ference on Access to Fishing Grounds and Markets Supported
	on To Be Evaluated	Fish Meal:
	Oceanography:	56 World Production, May 1963
39 .		Food and Agriculture Organization:
	ships Study	56 Seminar on Fishery Development Held in
39 .	0	Ghana Internetional Desifie Halibut Commission:
40 .	U.S. Navy Keel Laid for New Coast and Geodetic Sur-	International Pacific Halibut Commission: 56 North Pacific Halibut Fishing in Area 3A
40 .	. Keel Laid for New Coast and Geodetic Sur- vey Vessel	56 North Pacific Halibut Fishing in Area 3A Ended August 9, 1963
		and anguer of room

Contents continued page III.

II

## August 1963

# COMMERCIAL FISHERIES REVIEW

CONTENTS (CONTINUED)

Page		Page	
U	FOREIGN (Contd.):		FOREIGN (Contd.):
	International (Contd.):		Japan (Contd.):
	International Pacific Salmon Fisheries Com-	72	Association Contributes to United States Can-
	mission:	P. P	ned Tuna Promotion
57	Meets at Washington, D. C.	72	Packers Plan to Contribute to Promotion of
57	Argentina: Fishing Industry Plans Modernization	79	Canned Tuna
	Australia:	72	
	Bluefin Tuna Survey Resumed	72	Promotion
	Shrimp Fishery in Shark Bay Being Ex-		
	panded	73 74	
	Brazil:		King Crab Fishery Trends in Bristol Bay, Early July 1963
58	Foreign Trade in Fishery Products, 1961-	74	Fishing Company Comments on 1963 Bering
	1962		Sea Operations
	Canada:	75	
59	British Columbia Fishing Industry Tied-Up	75	
	by Labor Dispute		1963
59	British Columbia Fishing Industry Tie-Up	75	Exports of Frozen Halibut, January-June
	Ends		1963 and 1962
60	New Method Tested for Unloading Salmon	75	Export Prices for Canned Shrimp Reduced
	from Vessel	76	Japanese Firm Concludes Contract to Export
60	Experimental Oyster Hatchery Being Built		Hake to Spain
	Chile	76	Exports of Canned Saury
60	Control Over Foreign Fishing Vessel Li-	76	
	censes Tightened by New Decree		port Trade Promotion for Fisheries
	Fisheries Trends, April-June 1963	76	
61	Japan-United States-Chile Joint Fish-Meal	77	
61	Operations	77	
01	Demand for Shrimp and Langostino Can't Be Met	78	tions
	Denmark	82	
62	Fishery Exports to United States Decline in		Performance Report on Electrically-Powered
	January-June 1963	00	Fisheries Training Vessel
	Fishery Products Exports and Fishing In-	83	
	dustry Trends		Successful
65	Fishermen's Minimum Price Program for	84	Whaling Industry Trends
	Plaice Withdrawn	84	
66	Fisheries Association Makes Recommenda-		Stirs Controversy
	tions		Kuwait:
66		85	Shrimp Industry
	Discussed		Liberia:
66	Herring Shark Fishery		Fishing Company Expands Operations
00	Ghana:	86	Fishing Industry To Be Reorganized
	Fisheries Expansion Program	0.6	Malaya:
00	Trawlers from Japan	00	Japanese Tuna Operations at Penang To Be Expanded
68	Iceland: Fishery Landings by Principal Species,		Netherlands:
	January-March 1963	87	Distant-Water Fishing by Trawlers
68	Utilization of Fishery Landings, January-		New Caledonia:
	March 1963	87	Freezership to Serve as Floating Tuna Cold-
	Italy:	N. Maria	Storage Plant
68			Peru:
	Japan:	88	Fishing Industry Status as of July 1963
69		88	Fish Meal and Oil Industry Trends, April-
69	Exports of Frozen Tuna for Fiscal Year 1962		June 1963
70			Portugal:
70	* * 0	89	Canned Fish Trends, January-May 1963
20	cific	89	Canned Fish Exports, January-April 1963
70	Albacore Fishing in South Pacific Poor	90	Canned Fish Pack, January-April 1963 South Africa Republic:
70		90	Tuna Investigations Off West Coast
71	Increased Canned Tuna in Brine Seventh Sale to United	90	Pilchard-Maasbanker Fishery, January-
71	States		April 1963
71			South-West Africa:
	as of Mid-June	91	G ist Manualana Diah in Inchana Dilahand
71	Export Trends for Canned Tuna in Brine,		Grounds Off Coast
	Canned Salmon, and Canned Crab Meat, 1962	91	Firm Plans to Export Frozen Pilchard Fillets
		1	TTT

Contents continued page IV.

III

### COMMERCIAL FISHERIES REVIEW

### CONTENTS (CONTINUED)

Page		Page
0	FOREIGN (Contd.):	FEDERAL ACTIONS (Contd.):
	Spain:	Department of the Interior:
91 .		Fish and Wildlife Service:
	Buy Spanish-Caught Fish	Bureau of Commercial Fisheries:
	U. S. S. R.:	
0.2	. King-Crab Fleet Leaves Gulf of Alaska	
		for Grades of Frozen Raw Breaded Fish
54 .	. Four Fish Processing and Freezing Vessels	Portions
0.0	To Be Built in the Netherlands	Department of Labor:
92 .		Wage and Hour and Public Contracts Divisions:
	Delivered	104 Minimum Wage Changes Affect Fish Can-
	United Kingdom:	nery Workers and On-Shore Workers
92 .	. Two New Semiautomated Stern Trawlers to	Department of State:
	Fish in North Sea	Agency for International Development:
95 .	. New Trawl Depth Telemeter Developed	104 Fisheries Aid Grants to Foreign Countries,
95 .	. New Type Flashing Marine Buoy Light De-	1955-1962
	veloped	U.S. Tariff Commission:
	Foreign Fisheries Briefs:	105 Import Tariff Schedule Changes Include Fish Reaks and Other Fishery Products
97 .		Blocks and Other Fishery Products
	ing, First Half 1963	Treasury Department:
98 .		Internal Revenue Service:
	Union	108 . Fishermen's Estimated Income Tax
98 .		U. S. District Court:
0.0	Abidjan Tojwanaga Fighing Vasgala Will Use Couth	110 Breaded Seafood Processor Granted Over-
98 .	0	time Exemption Under Fair Labor Standards
0.0	African Ports	Act
98 .		White House:
98 .		110 Revised Tariff Schedules Effective August 31,
98 .		1963
98 .		111 Changes in Tariff Schedules Given Effect By
99 .		Presidential Proclamation
	North Pacific	112 Eighty-Eighth Congress (First Session):
99 .		FISHERY INDICATORS:
99 .	Soviet Study of Crab Resources of Okhotsk	116 Chart 1 - Fishery Landings for Selected States
	Sea	117 Chart 2 - Landings for Selected Fisheries
99 .	Soviet Fishery Landings up in First Half of	118 Chart 3 - Cold-Storage Holdings and Freez-
	1963	ings of Fishery Products
	FEDERAL ACTIONS:	119 Chart 4 - Receipts and Cold-Storage Holdings
	Department of Commerce:	of Fishery Products at Principal Distribution
	Area Redevelopment Administration:	Centers
100 .		119 Chart 5 - Fish Meal and Oil Production
100 .	of Newport, Oregon, Approved	120 Chart 6 - Canned Packs of Selected Fishery
	Department of Health, Education, and Welfare:	Products
	Food and Drug Administration:	
100	Weighing Packaged Fish Fillets at Time	121 Chart 7 - U.S. Fishery Products Imports RECENT FISHERY PUBLICATIONS:
100 .	of Sale Approved	
	or our rippiored	122 Fish and Wildlife Service Publications

124 . . Miscellaneous Publications

Editorial Assistants: Ruth V. Keefe and Jean Zalevsky

Sr. Compositor: Alma Greene Jr. Compositors: Donna K. Wallace and Marjorie McGlone

\* \* \* \* \*

Photograph Credits: Page by page, the following list gives the source or photographer for each photograph in this issue. Photographs on pages not mentioned were obtained from the Service's file and the photographers are unknown.

> Cover--Bruce Yeager; p. 30--F. B. Sanford and C. F. Lee; p. 35--Andrew L. Pinto; p. 37--Robert K. Brigham; p. 59--Information Services, Dept. of Fisheries, Ottawa, Canada; p. 65--A. W. Anderson, U. S. Regional Fisheries Attache for Europe; p. 78 and 82--Consulate General of Japan, N. Y.; p. 88--Milton Lindner, U. S. Embassy, Mexico.

For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402. Price 60 cents (single copy). Subscription price: \$5.50 a year; \$2 additional for foreign mailing.

IV