

## Executive Director's Report

### NOAA Budget for FY 1991

Alaska and Pacific Northwest representatives went to Washington, D.C. in response to Congressman Young's request for industry comments on analytical needs for our fisheries. Bob Alverson's report of their meetings and contacts is under item B-1(a) along with a FY 1991 NOAA budget status report prepared by the Pacific States Marine Fisheries Commission. Bob Alverson and John Peterson are prepared to report further on these budget issues.

### Halibut Management by IPHC

Last December the Council made the following recommendations to IPHC for the 1990 fishery:

1. For Area 4C, extend the 10,000 lb trip limit to the entire area quota and delay the opening to June 25.
2. For Area 4B, continue the early openings.
3. Consider establishing a small fishery in Bristol Bay if there are no conservation problems.

Items 1 and 2 have been approved for the 1990 fishery. For item 3, IPHC expanded Area 4E into Bristol Bay but did not set a special quota. I understand that the National Marine Fisheries Service plans to split the 100,000 pound quota for Area 4E, 70%-30%, assigning 30,000 pounds to Bristol Bay and 70,000 pounds to Nelson Island fishermen. Steve Pennoyer will be able to report more on this issue. A map of the regulatory areas is under item B-1(b).

### Council Meeting Schedule for 1991

The Council needs to approve meeting dates for 1991 so we can lock in hotel space. Here are proposed dates for five meetings based on our usual meeting months:

January 14-18	Anchorage	Pacific Salmon Commission meets January 21-25 and February 4-8. IPHC meets January 28-31.
April 22-26	Anchorage	
June 24-28	Anchorage	
September 23-27	Anchorage	
December 2-6	Anchorage	PSC meets December 2-6, a direct conflict with our meeting.

The Performance Review Committee recommended that one meeting be held out of Anchorage. Where and when would the Council like to meet?

### Bill Wilson Leaving Staff

Bill Wilson, plan coordinator for the Gulf groundfish plan, the salmon plan, and halibut issues, will be leaving the staff on May 21. He's been hired by LGL Consultants to lead all their fisheries projects in northern Alaska. Bill has done an excellent job for us and I wish him well in his future position.

### International Conference on Fish By-product Opportunities

Item B-1(c) is the program for a conference at the Egan Civic and Convention Center the last three days of this week. Though we most likely will not complete our meeting in time to attend the conference, I will obtain summaries of the conference and distribute them to you when they become available.

### Photo Session

The annual photo session for the Council, AP and SSC will be at 1:00-1:30 pm, Tuesday afternoon.

### June Reservations

It'll be tourist season soon, so please get your reservations in at the Hilton for the June 25-29 meeting. We'll have the groundfish amendments, BSAI bycatch, sablefish limited access, inshore-offshore, and probably the moratorium issue on that agenda, so it could be a long week.

**FISHING VESSEL OWNERS' ASSOCIATION  
INCORPORATED**

AGENDA B-1(a)  
APRIL 1990

ROOM 232, WEST WALL BUILDING • FISHERMEN'S TERMINAL  
SEATTLE, WASHINGTON 98119

SINCE 1914

MAR 22

March 15, 1990

Dr. Don Collinsworth  
Chairman  
North Pacific Fishery Management Council  
P. O. Box 103136  
Anchorage, AK 99510

Dear Chairman Collinsworth:

I have returned from Washington, D.C. and have enclosed an itinerary sheet of the people and offices I visited. The purpose of this trip was to address Congressman Young's request for providing analysis of the needs of fisheries in the Northwest.

I was assisted by several industry groups including representatives from UFA, Alaska Factory Trawlers, Pacific Seafood Processors Association, Alaska Crab Coalition, and the Pacific Marine States Fisheries Commission. We had about ten (10) people who divided into teams and talked to the people on the enclosed outline.

I feel we were received very well and were better able to inform the Congress on specifics to each issue being considered. I have enclosed for you an outline of our presentation. Those issues that industry members were concerned about were addressed by all those helping me.

Very truly yours,

  
Robert D. Alverson  
Manager

RDA:cb

FAX  
(206) 283-3341

LATITUDE: 47° 39' 36" NORTH

DIAL "A VESSEL"  
(206) 283-7735

LONGITUDE: 120° 22' 58" WEST

*B-Pls note for  
contact list* → *ACE*

ALASKA, WASHINGTON, OREGON, HAWAII AND CALIFORNIA  
FISHING INDUSTRY BUDGET MEETINGS  
MARCH 6 & 7, 1990  
WASHINGTON, D.C.

TUESDAY, MARCH 6:

	7:30 AM	BREAKFAST	LA COLLINE 400 N. CAPITOL
B	9:00 AM	MIDORI ORAZAKI (CONG. SWIFT)	1502 LONGWORTH
A	9:30 AM	STEVE JOHNSON (CONG. MCDERMOTT)	1529 LONGWORTH
B	10:00 AM	JILL LUCKETT (SEN. PACKWOOD)	259 RUSSELL
A	10:30 AM	DARROLD DANDY (CONG. SMITH)	2373 RAYBURN
all	1:00 PM	WARREN KANE & JOHN SHANK (SEN. APPROP)	S-146A THE CAPITOL
all	2:45 PM	JEFF PIKE-ROD MOORE-JIM MCCALLUM	ROOM 576 HOUSE ANNEX 2
A	3:15 PM	CONGRESSWOMAN JOLENE UNSOELD	1508 LONGWORTH
B	4:00 PM	JILL YACONE (CONG. BERNARD DWYER)	2428 RAYBURN
all	5:00 PM	WILLIAM FOX	NMFS SILVER SPRING

*NOTE:* FUNDRAISER FOR GERRY STUDDS AT DEMO. CLUB 6-8 PM

WEDNESDAY, MARCH 7:

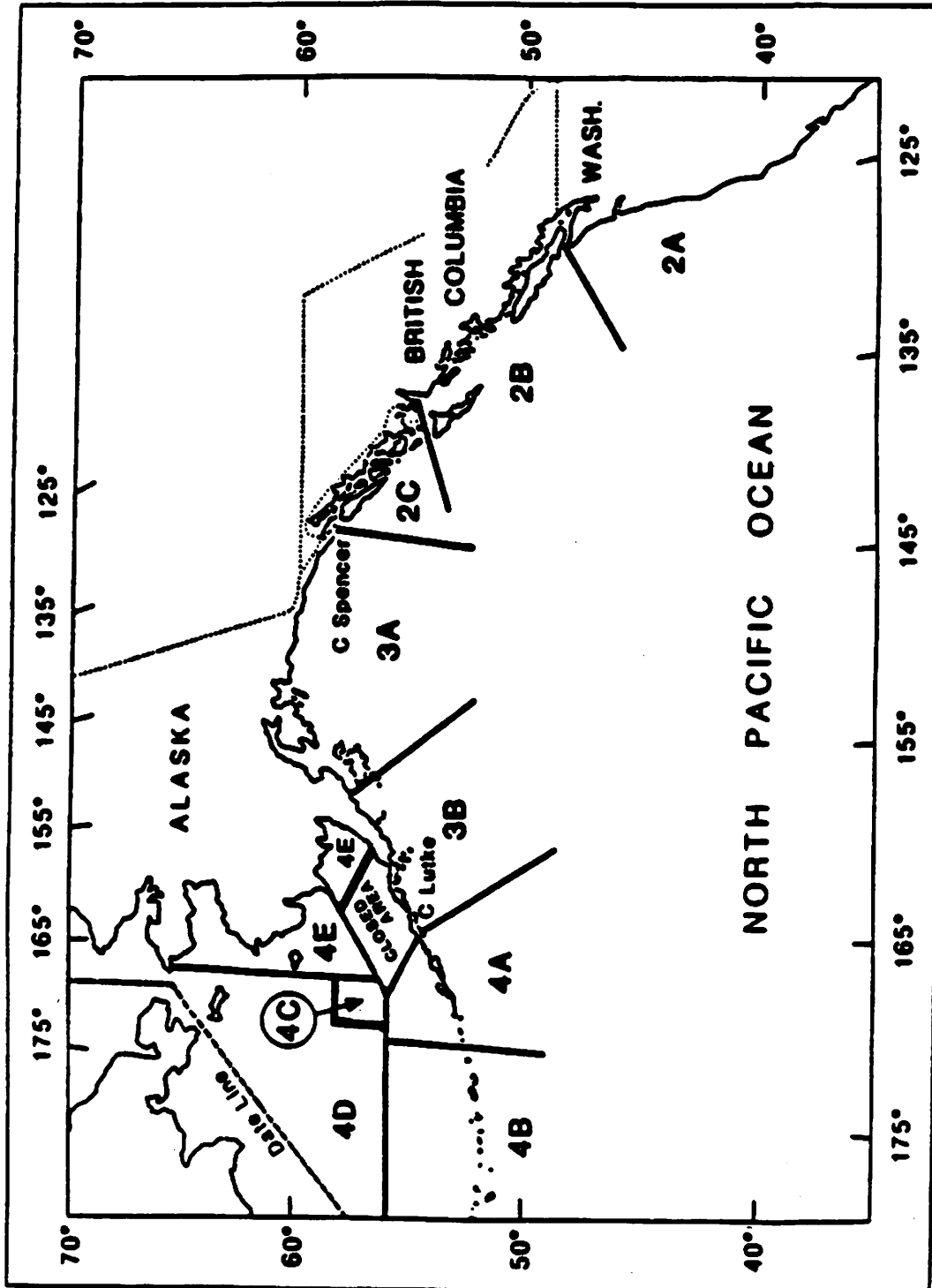
*8:00 Breakfast - work ct.*

*JA* 9:30 AM PENNY DALTON/MIKE NUSSMANN (SEN. COMMERCE) 425 HART SOB

<b>C</b>	10:00 AM	MAILE LUUWAI (SEN. INOUYE)	722 HART SOB
<b>B</b>	10:00 AM	JEAN GINGRAS (CONG. BILL LOWRY)	2433 RAYBURN
<b>(B)</b>	11:00 AM	SENATOR BROCK ADAMS WITH BRUCE NEED AND ALAN OSAKI	513 HART SOB
<b>(B)</b>	11:30 AM	CONGRESSMAN NORM DICKS WITH TED BRISTOL AND MIKE BAGLEY	2429 RAYBURN
<b>A</b>	11:30 AM	SENATOR SLADE GORTON WITH TERRI CLAFFEY	730 HART SOB
<b>B</b>	12:00	Bill Wolf	709 HART SOB
<b>(B) (John Bruce)</b>	12:30 PM	CONGRESSMAN DON YOUNG WITH ROD MOORE	2331 RAYBURN
<b>A</b>	3:00 PM	CONGRESSMAN JOHN MILLER	1406 LONGWORTH
<b>C</b>	3:00 PM	SENATOR HATFIELD	711 HART SOB
<b>(A)</b>	3:30 PM	JOHN OSTHAUS (HOUSE APPROP.) JIM FAIRCHILD (HOUSE APPROP.)	H-309 THE CAPITOL

425-3481

5:30 - Coleman - Bull feathers



Regulatory areas for the Pacific halibut fishery.

# *Making Profits Out of Seafood Waste*

## **Alaska's Billion Pounds of Protein**

An International Conference about  
Fish By-product Opportunities

April 25-27, 1990  
Anchorage, Alaska, USA

### *Making Profits Out of Seafood Waste*

*The valuable hidden resources contained in seafood processing "wastes" are the focus of this important international conference. Alaska seafood processors, both shore based and offshore, will hear about practical, commercially viable methods for making profits from their traditional "waste" streams. It is estimated that from Alaska waters alone over one billion pounds of protein may be lost each year.*

*The speakers will provide you with timely information on opportunities and profits being realized in several nations' fisheries. Many of the speakers represent companies that base their entire business on recovery of seafood by-products from the "waste" stream.*

*Don't miss this opportunity to interact with others in processing, production, distribution, manufacturing, and sales of waste recovery products and equipment. During the three-day conference there will be ample time for informal discussions among participants.*

*Register now and mark your calendar for April 25-27.*

### **Program**

*The three-day conference program consists of invited and contributed practical, technical, and scientific presentations and displays of products and equipment. An optional field trip is planned to an Alaska by-product processing plant.*

### **Program Planning Committee**

#### **Chuck Crapo**

University of Alaska Fairbanks  
Marine Advisory Program

#### **Fred Husby**

University of Alaska Fairbanks  
Agricultural and Forestry Experiment Station

#### **Mike Meehan**

Icicle Seafoods, Inc.  
By-products Division

#### **Brenda Melteff**

University of Alaska Fairbanks  
Alaska Sea Grant College Program

#### **Peter Moore, Chair**

Alaska Fisheries Development Foundation

#### **Carl Rosler**

National Marine Fisheries Service  
Alaska Region

### **Sponsors\***

Alaska Fisheries Development Foundation

University of Alaska Fairbanks

Alaska Sea Grant College Program

Agricultural and Forestry Experiment Station

Marine Advisory Program

Icicle Seafoods, Inc.

By-products Division

National Marine Fisheries Services

\* Organizations wishing to sponsor the conference can do so through donations of financial assistance or in-kind donations of seafood and refreshments for the seafood buffet and receptions. For further information contact Brenda Melteff (907) 474-7086 or Peter Moore (907) 276-7315.

# Conference Program

**Wednesday, April 25**

---

## Welcome

Steve Cowper (*invited*), Governor of Alaska, Juneau, Alaska

## Introduction

Mel Monsen, Executive Director, Alaska Fisheries Development Foundation, Anchorage, Alaska

## Market Overview

Chair: Peter Moore, Alaska Fisheries Development Foundation

### Worldwide protein market developments

K.R. "Dick" Ellis, formerly with Proctor and Gamble and Peterson Manufacturing (major U.S. rendering company)

### Past, present and future markets in the U.S. for fish meal, fish oil and fish solubles

Thomas J. Starkey, H.J. Baker & Bro. Inc., New York, New York  
Historic production and utilization of fish meal and fish oil in Alaska

Mike Meehan, Icicle Seafoods, Inc., Seward, Alaska; Fred Husby, University of Alaska, Fairbanks, Alaska; and Carl Rosier, National Marine Fisheries Service, Juneau, Alaska

### Intrinsic quality and species of North Pacific fish

Jerry Babbitt, National Marine Fisheries Service, Kodiak, Alaska

## Product/Market Opportunities

Chair: Fred Husby, University of Alaska

### Animal, poultry, and marine protein: A cooperative market approach

Frank Burnham, Publisher, *Render Magazine*, Riverside, California

### World market opportunities for fish meal, fish oil, and bone meal

R.W. Shepherd, Wilbur-Ellis, Seattle, Washington

### Chitin and chitosan -- crustacean biopolymers with big potentials

Oyvind Skaugrud, Protan A/S, Drammen, Norway

### Utilization of selected fish by-products in Iceland: Past, present and future

Grimur Valdimarsson, Icelandic Fisheries Laboratories, Reykjavik, Iceland

### Creamy Fish Protein

Yoshikazu Shoji, Asahi Denka Kogyo K.K., Tokyo, Japan

### Discussion

### Reception

**Thursday, April 26**

---

## Market Specifications

Chair: Robyn King, Icicle Seafoods, Inc.

### Influence of process parameters and raw material freshness on fish meal quality

Bjom Marki, Stord International A/S, Bergen, Norway

### Specifications of marine by-products for aquaculture

Ron Hardy, National Marine Fisheries Service, Seattle, Washington

### Utilization of marine by-products in pet foods

Thomas R. Willard, Independent Nutritional Consultant, Dayton, Ohio

### Quality fish meal: specifications and use in aquaculture and fur farming

Nils Chr. Jensen, Esbjerg Fiskeindustri, Esbjerg, Denmark

### New products, processing possibilities and markets for fish-body and fish-liver oil

Baldur Hjaltason, LYSI HF, Reykjavik, Iceland

## Regulations and Economics

Chair: Carl Rosier, National Marine Fisheries Service

### United States regulatory policy

Valerie Haney, U.S. Environmental Protection Agency, Anchorage, Alaska

### Export and foreign investment opportunities for Alaskan processors

Ron Miller, Governor's Office of International Trade, Anchorage, Alaska

### Economics of fish by-product processing worldwide

Harald Wiedswang, Kvaerner Eureka A/S, Bryne, Norway

### Economics of by-product utilization for small processors in Alaska

Erik Hansen, Atlas Industries (Denmark), Kansas City, Missouri

### Economics of fish meal and oil processing in Alaska

Joel Cowger, Aleutian Proteins Inc., Redmond, Washington

### Viewing displays and seafood dinner

**Friday, April 27**

---

## Product Development and Research

Chair: John Clemence, Ocean Beauty Seafoods, Inc.

### An integrated approach to recovery and utilization of Louisiana crawfish processing wastes

Samuel P. Meyers, Louisiana State University, Baton Rouge, Louisiana  
Product recovery from surimi washwater

Leo D. Pedersen, National Food Processors Association, Dublin, California

### Composting fish by-products: Solutions for the '90s

William F. Brinton, Jr., Woods End Laboratory Inc., Mt. Vernon, Maine

### Seafood flavorants produced by enzymatic hydrolysis

Thadde IN, ISNARD Lyraz, Queven, France

## Other Papers

Chair: Chuck Crapo, University of Alaska

### Hydrolysis and fermentation of fishery by-products for feeds and fertilizers: Costs and benefits of some processing variables

Susan Goldhor, Robert Curren, Robert Levin and Oddvar Solstad, Goldhor and Associates, Inc., Cambridge, Massachusetts; and David Nichols, McCombs Frank Roos Associates, Inc., Minneapolis, Minnesota

### Biological fish meal: Bio-Proteus' approach to fish-waste utilization

Enrique V. Bertullo, John F. Bingaman, and Donald G. Snyder, Bio-Proteus Corporation, Reading, Pennsylvania

### Observed uses of seafood by-products on U.S. agricultural crops

Bruce Wyatt, University of California, Santa Rosa, California

### The effect of feeding redfish oil or redfish meal on the omega-3 fatty acid content of broiler chickens

H.W. Hulan, Memorial University of Newfoundland, St. John's, Newfoundland, Canada; and R.G. Ackman, Technical University of Nova Scotia, Halifax, Nova Scotia, Canada

### Bio Fish Flour

Yasuzo Uchida, University of Tokyo, Tokyo, Japan

## Conclusion

Chair: R.K. Dearborn, University of Alaska

### Future of the resource in Alaska's offshore waters

Alec W. Brindle, Wards Cove Packing Company, Seattle, Washington

### Trends for the future

John Kilpatrick, TROUW International BV, Vancouver, British Columbia, Canada



## Location

The conference will be held in Anchorage, Alaska's largest city. All meeting sessions, the reception and dinner will be held at the new William A. Egan Civic and Convention Center, 555 West 5th Avenue.

The Anchorage Hilton Hotel, two blocks from the convention center, is holding guest room accommodations for conference participants at the rate of \$65.00 a night for a single or double room. Attendees should make hotel reservations directly.

by mail:  
Anchorage Hilton Hotel  
P.O. Box 100520  
Anchorage, Alaska 99510 USA

by phone, in person:  
500 West 3rd Avenue  
(907) 272-7411

## Audience

The program will be of interest to: processors; manufacturers of feeds, consumables, and equipment; retailers, wholesalers, brokers and distributors; fishermen; financiers; and others with an interest in fish by-product utilization.

## Proceedings

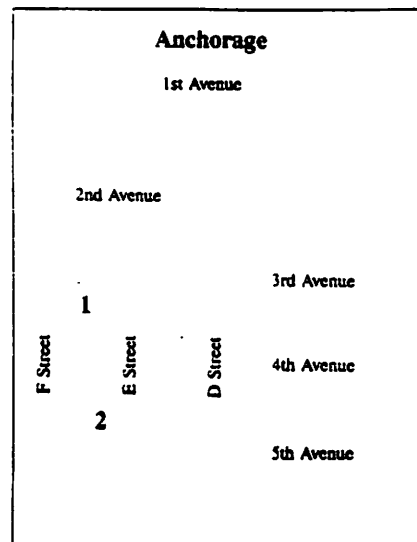
A proceedings volume containing all papers presented as well as summaries of all discussions will be available to participants as soon after the conference as possible. Additional copies will be available for sale to others.

## Registration

A registration fee of \$70.00US covers printed conference materials, a copy of the conference proceedings, coffee break refreshments, and reception.

*Pre-registration is encouraged to assure availability of sufficient conference materials.* To pre-register, fill out and return the attached form to:

Brenda Melteff, Coordinator  
University of Alaska Sea Grant College Program  
138 Irving II  
Fairbanks, AK 99775-5040 USA  
Phone: (907) 474-7086, FAX (907) 474-7204



1-Anchorage Hilton Hotel  
2-Egan Civic and Convention Center

## Displays

Display space is available on a first come first served basis for those wishing to show their wares. Cost for 10' x 8' draped booth space including conference registration for one individual is \$200.00US.

## Field Trip

An all-day field trip is planned for Saturday, April 28 to the seaside community of Seward to tour Icicle Seafoods by-product processing plant. The three-hour bus trip will take you past some of Alaska's most impressive scenery, with stops to see a glacier and other wonders. Time will be scheduled for lunch and browsing in Seward.

Cost of the trip to cover transportation is \$25.00US per person, meals and other expenses not included.

If you want to take advantage of this trip, indicate so on your registration form. Transportation cost can be included with your pre-registration or paid at the conference.

---

## Alaska's Billion Pounds of Protein Pre-Registration Form

Name \_\_\_\_\_

Affiliation \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State/Country \_\_\_\_\_

Zip/Postal Code \_\_\_\_\_

Conference Registration

\_\_\_\_\_ \$70.00US enclosed    \_\_\_\_\_ Payment at door

Conference/Display Registration

\_\_\_\_\_ \$200.00US enclosed

I'd like to participate in the field trip

\_\_\_\_\_ \$25.00US enclosed    \_\_\_\_\_ Payment at door

---

Status of FY1991 Appropriations			
Senate Subcommittee on Appropriations held Hearings on March 29th. but took testimony only from Agencies. The written record is open until April 30th. It is my impression that Senators Adams, Hatfield, and Stevens are supportive of the Industry Coalition proposals.			
House Subcommittee on Appropriations held hearings on March 28th and 29th.			
National Marine Fisheries Service FY 1991 Appropriations (\$1,000s)			
Testimony before Subcommittee on Appropriations			
	Industry Coalition	Cong. Dicks, AuCoin & Dem Cowles	Merchant Marine and Fisheries Committee *
		Unsoeld **	
Bering Sea Pollock Research			
Includes Donut Pollock	\$ 2,100	\$ 2,100	\$ 1,250
Regional Fishery Councils	8,700	8,700	9,000
High Seas Driftnet Program	7,500	7,500	4,300
Bering Sea Crab Assessment	500	500	250
Marine Mammal Population Assessment	6,900	6,900	6,000
Domestic Fishery Observer Program	2,000	2,000	0
PacFIN	3,000	3,000	2,000
West Coast Groundfish Research	1,450	1,450	947
ADP Systems Upgrade	2,500	2,500	1,700
Other important items already fully funded in Administration request			
Alaska Groundfish	700	700	700
Alaska System Monitoring	2,000	2,000	2,000
Conservation Engineering / By-catch	750	750	750
Enforcement and Surveillance	9,380	9,380	10,000
MMPA	7,500	7,500	7,500
* Congressmen Jones, Studds, & Young			
** Cong. John Miller did not testify but lobbied subcommittee members in support of the Coalition proposal			
Suggested industry and individual actions:			
1. Letters of thanks to AuCoin, Dicks, Miller, Unsoeld, and Young.			
2. Question Cong. Jones, Studds & Young about the reduced amounts for Bering Sea Pollock, High Seas Driftnet, Bering Sea Crab Assessment, Marine Mammal Assessment, Domestic Observers, PacFIN, West Coast Groundfish, and ADP.			
3. Letters to Senate Subcommittee on Appropriations and to Senators Adams, Hatfield, and Stevens.			
Prepared by the Pacific States Marine Fisheries Commission			20-Apr-90
Don Bevan (206) 543-4276			

ALASKA, WASHINGTON, OREGON, CALIFORNIA, AND HAWAII  
FISHERIES COALITION SUPPORTING AN EFFECTIVE  
NMFS APPROPRIATION FOR FY 1991

The Fisheries Coalition represents the major fishing, processing, and marketing associations of Alaska, Washington, Oregon, California, and Hawaii. The associations listed below represent the vast majority of the industry. They request that adequate funding be made available to properly manage the fisheries upon which their livelihood depends.

- |                                       |  |
|---------------------------------------|--|
| Alaska Crab Coalition                 | The Highliners                                       |
| Alaska Factory Trawlers Assn.         | Kodiak Longline Vessel Owners Assn.                  |
| Alaska Draggers Assn.                 | Midwater Trawlers Cooperative                        |
| Alaska Groundfish Data Bank           | North Pacific Fishing Vessel Owners Assn.            |
| American High Seas Fisheries Assn.    | Northwest Fisheries Assn.                            |
| American Samoa Gamefishing Assn.      | Oregon Trawl Commission                              |
| American Samoa Aiga Fisheries Comm.   | Pacific Coast Federation of Fishermen's Associations |
| Bering Sea Fishermen's Assn.          | Pacific Seafood Processors Assn.                     |
| CNMI Sports Fishermen Assn.           | Tautai O Samoa Fishery Assn.                         |
| Deep Sea Fishermen's Union            | United Fishermen of Alaska                           |
| Eureka Fisheries                      | United Fishermen's Marketing Assn.                   |
| Fishing Vessel Owners Assn.           | United Fishing Agency of Hawaii                      |
| Guam Fishermen's Cooperative Assn.    |  |
| Hawaii Seafood Promotion Comm.        |  |
| Hawaiian International Billfish Assn. |  |

<b>CRITICAL FISHERIES FUNDING NEEDS FOR FY 1991</b>					
National Marine Fisheries Service FY 1991 Appropriations (\$1,000s)					
Critical Needs	1	2	3	4	5
	1990 Current Available *	1991 Administration Request	1991 Requirement Total	1991 Additions Required to Administration Request	1991 Additions to 1990
Bering Sea Pollock Research Includes Donut Pollock	\$ 1,000	\$ 750	\$ 2,100	\$ 1,350	\$ 1,100
Regional Fishery Councils	7,233	7,233	8,700	1,467	1,467
North Pacific Council	1,210		1,452		242
Pacific Council	944		1,330		386
Western Pacific Council	733		880		147
High Seas Driftnet Program	3,000	3,300	7,500	4,200	4,500
Bering Sea Crab Assessment	0	0	500	500	500
Marine Mammal Population Assessment	0	3,000	6,900	3,900	6,900
Domestic Fishery Observer Program	0	0	2,000	2,000	2,000
PacFIN	1,000	2,000	3,000	1,000	2,000
West Coast Groundfish Research	847	847	1,450	803	803
ADP Systems Upgrade	0	1,700	2,500	800	2,500
Other important items already fully funded in Administration request **	16,228	20,541	20,541	0	4,313
<b>TOTAL</b>	<b>\$ 29,308</b>	<b>\$ 39,371</b>	<b>\$ 55,191</b>	<b>\$ 15,820</b>	<b>\$ 25,883</b>
* Includes some expenditures for these activities made under other line items or base budget.					
** See list on page 5.					
Prepared by the Pacific States Marine Fisheries Commission					
Don Bevan (206) 543-4276					
1-Mar-90					

## NINE CRITICAL FISHERIES FUNDING NEEDS FOR FY 1991

The Administration has submitted a significantly improved fisheries budget for FY 1991. It enhances some critical existing programs and introduces several new ones. However, the proposed NMFS budget is at least \$40 million less than actually appropriated in FY 1990. This reduction will impair the agency's ability to provide data collection, research, management, and enforcement critical to the future health of the nation's rich, renewable fisheries resources.

National Marine Fisheries Service responsibilities have increased greatly. A robust, new commercial fish industry has developed more rapidly than ever expected. The exponential growth, compounded by new laws and obligations, has vastly increased the mission and responsibilities of NMFS and the Regional Fishery Management Councils, especially for Alaska and Pacific Ocean fisheries.

Domestic conflicts, an outgrowth of full Americanization of the enormous fisheries resources, have created difficult bycatch and allocations problems exacerbated by a lack of valid data. Unrestrained foreign fishing in international waters of the Pacific, illegal foreign fishing in our zone, new and developing agreements with foreign nations -- all urgently need resolution by NMFS and the Regional Councils.

Alaska and Pacific fisheries produce over 5 billion pounds of edible seafood annually, roughly equivalent to half our nation's fish production. With a wholesale value of about \$4 billion, they support over 70,000 people employed in fishing, processing and marketing. Additionally, the fisheries support wide employment in shipbuilding, maintenance and other support industries. Over \$1 billion in seafood is exported annually from these fisheries, nearly 70% of the nation's total fishery exports.

The Fisheries Coalition strongly supports a budget that will enable the National Marine Fisheries Service to meet its fisheries management obligations under the Magnuson Act. We do not profess to understand fully the very complicated NOAA budget document or the relationships of parts of the base budget to the line items. However, there are several very critical line items that stand out from the rest. They directly affect the well-being of our Alaska and Pacific fisheries. Though there are many other important items in the NMFS budget, nine critical funding needs are of particular concern to us for FY 1991:

1. Bering Sea Pollock Research
2. Regional Fishery Management Councils
3. High Seas Driftnet Program
4. Bering Sea Crab Assessment
5. Marine Mammal Population Assessment
6. Domestic Fishery Observer Program
7. Pacific Fishery Information Network (PacFIN)
8. West Coast Groundfish Research
9. ADP Systems Upgrade

## **NINE CRITICAL FISHERIES FUNDING NEEDS FOR FY 1991**

### **BERING SEA POLLOCK RESEARCH**

**(\$2.1 million is needed; the Administration requests only \$750 thousand)**

U.S. fishermen annually harvest from the Bering Sea 2.7 billion pounds of pollock. Pollock contributes 63% of the groundfish harvest off Alaska. It also is harvested beyond 200 miles by foreign fleets from Japan, the Soviet Union, Korea, China and Poland. The Magnuson Act requires that resources be managed throughout their range with the best information available. Funding of \$2.1 million is needed to:

- Collect data on stock structure, life history, population dynamics and ecosystem interactions.
- Assess the impacts of fishing on pollock and forestall significant stock declines.
- Support cooperative international research.
- Provide data to forge international controls on unrestrained foreign harvests in the Donut Hole.

### **REGIONAL FISHERY MANAGEMENT COUNCILS**

**(\$8.7 million is needed; the Administration requests only \$7.233 million)**

Most fisheries are fully domestic and face contentious allocative issues related to bycatch, expanding fishing power, and competition for fishing grounds. The Councils must address these problems, maintain the viability of the resources, and rebuild where necessary. But they are understaffed and there is little money for outside analysis or for required meetings with industry.

The workload, measured by the number of fishery management plans, has increased five-fold, but the Councils have remained funded at about \$7 million since 1980. The North Pacific, Pacific, and Western Pacific Councils cannot meet their obligations under the Magnuson Act with the funding proposed by the Administration and management for many of the nation's fisheries within the western EEZs will be seriously affected. The increase proposed for the Pacific Council restores the FY 1990 budget cut and provides increased funding necessary to maintain fishery management plans.

### **HIGH SEAS DRIFTNET PROGRAM**

**(\$7.5 million is needed; the Administration requests \$3.3 million)**

The foreign high seas driftnet fishery agreements of 1990 necessitate an increase of funding for:

- 100% transmitter coverage.
- Increased numbers of U.S. observers from that of the initial pilot program.
- Assessment of impacts on key populations of mammals, birds, and fish.
- Program administration.

The increases in those requirements necessitate \$7.5 million to fulfill U.S. obligations. These funds are necessary to enable the U.S. to prepare for the next U.N. discussion on high seas driftnets.

### **BERING SEA CRAB ASSESSMENT**

**(\$500 thousand is needed; the Administration requests nothing)**

Funding of \$500,000 for research is needed to improve King and Tanner crab management in the Bering Sea. Without regulatory changes, the NMFS faces a heavy responsibility to effectively manage the more than 200 vessels who harvest crab valued at more than \$410 million annually.

Unfortunately, at the present time, very little research is conducted into the life cycle, resource assessment, and inseason management strategies.

**NINE CRITICAL FISHERIES FUNDING NEEDS FOR FY 1991**  
(Continued)

**MARINE MAMMAL POPULATION ASSESSMENT**  
(\$6.9 million is needed; the Administration requests \$3.0 million)

Populations of the Northern Sea Lion in the North Pacific are showing drastic declines for unknown reasons. Because of administrative and legal requirements of the Marine Mammal Protection Act and the Endangered Species Act those declines will cause drastic curtailment of fisheries worth billions of dollars. Available data do not allow an assessment of the role which fisheries may have played in this decline, nor do they allow the development of reasonable management measures to mitigate these declines.

Multi-disciplinary research in the Gulf of Alaska and Bering Sea is needed to determine what factors are responsible for the current population declines and to identify what must be done to rectify this crisis.

**DOMESTIC FISHERY OBSERVER PROGRAM**  
(\$2 million is needed; the Administration requests nothing)

Observers provide essential fisheries information critical for management. Uninformed decisions jeopardize the resource and the industry.

Funding for observers is a most important need. Two million dollars are needed for domestic fishery observers to relieve the burden placed on individual vessels and processors by the North Pacific Council's program. The \$2 million is in addition to the \$7.5 million requested by the Administration for marine mammal observers.

**PACIFIC FISHERY INFORMATION NETWORK (PacFIN)**  
(\$3.0 million is needed; the Administration requests \$2.0 million)

Timely data are needed for effective management. PacFIN provides such information -- enabling managers and industry to track catches by area and to plan better. It is the nation's first regional fisheries data network. Fisheries off Alaska, Washington, Oregon, California, Hawaii, and the American flag Pacific Islands provide information to a central data base accessible to all. These states already have contributed over \$25 million in data collection and processing to this multi-agency effort which also includes the West PacFIN (Hawaii, American Samoa, Commonwealth of the Northern Mariana Islands, Guam, and NMFS). The \$3.0 million is needed to maintain this highly efficient data system so critical to management of the fisheries.

**WEST COAST GROUND FISH RESEARCH**  
(\$1.45 million is needed; the Administration requests \$847 thousand)

Sablefish, rockfish and Pacific whiting support the largest fishery off California, Oregon and Washington. Sablefish has declined in abundance, but remains the most valuable. Critical funding is needed for the Tiburon Laboratory and NMFS Northwest and Alaska Fisheries Science Centers to:

- Conduct research and surveys on rockfish and whiting.
- Annually estimate stock abundance and recruitment.
- Assess the status of the sablefish and Dover sole resources.

**NINE CRITICAL FISHERIES FUNDING NEEDS FOR FY 1991**  
(Continued)

**ADP SYSTEMS UPGRADE**

(\$2.5 million is needed; the Administration requests \$1.7 million)

Data must be available quickly to manage fisheries. NMFS's computer serving the Northwest and Alaska Fisheries Science Centers is obsolete, unreliable, and uneconomical to operate and maintain. Further, it cannot handle the increasing volumes of data from the fisheries. The system must be replaced to provide timely management information to the Councils and NMFS managers.

**IMPORTANT ITEMS FULLY FUNDED IN THE ADMINISTRATION BUDGET**

The Administration has requested appropriate funding for several new or existing programs. These programs do not overlap the nine critical funding needs described above.

Alaska Groundfish Surveys (\$700 thousand)  
Alaska System Monitoring/Fisheries Statistics (\$2 million)  
Conservation Engineering (Bycatch Issues) (\$750 thousand)  
Enforcement and Surveillance (\$9.591 million)  
Marine Mammal Protection Act (\$7.5 million)

The Administration proposes adding about \$4.3 million to the FY 1990 level of appropriations to support these important items.