



DEPARTMENT OF TRANSPORTATION
UNITED STATES COAST GUARD

AGENDA ITEM V-3

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REPORT TO THE NORTH PACIFIC FISHERIES MANAGEMENT COUNCIL
CONCERNING COAST GUARD FCMA ENFORCEMENT

1. Recent FCMA Infractions. Two reports of violation (civil penalty procedure) and four citations (written warnings) have been issued since the last council meeting. In addition, two foreign fishing vessels have been seized for FCMA infractions. A brief summary of each infraction follows.

a. 11 July. USCGC MUNRO issued a Report of Violation to the Japanese stern trawler TAISEI MARU No. 11 for failure to maintain an accurate cumulative catch log for the period 4/26/79 to 6/05/79.

b. 27 July. USCGC MORGENTHAU issued a report of violation to the Soviet stern trawler ARZAMAS for under logging rockfish by approximately 7.3 MT.

c. 2 August. USCGC BOUTWELL issued a citation to the Japanese stern trawler RYUYO MARU No. 2 for failure to properly maintain its daily cumulative catch log.

d. 13 August. USCGC MORGENTHAU issued a citation to the Japanese stern trawler HOKO MARU No. 25 for failure to properly maintain its daily cumulative catch log.

e. 18 August. Coast Guard Air Station Kodiak issued a citation to the Japanese crab vessel DAIKICHI MARU No. 33 for an obscured IRCS.

f. 20 August. Coast Guard Air Station Kodiak issued a citation to the Mexican stern trawler KORMEX 2 for an obliterated IRCS.

g. 20 August. USCGC MORGENTHAU seized the Taiwanese stern trawler HIGHLY 302 for underlogging and under reporting its catch by 48.5 percent (143.52 MT) enclosure 1.

h. 20 August. USCGC MORGENTHAU seized the Taiwanese stern trawler HIGHLY 301 for under logging and under reporting its catch by 52.9 percent (24.3 MT) enclosure 1.

Enclosure:

- (1) Summary of F/V HIGHLY 301 and HIGHLY 302 seizure
- (2) Coast Guard Patrol Effort
- (3) Analysis of Boardings and Enforcement Incidents
- (4) Surveillance Standard Analysis for Independent Fishing Vessels
- (5) Boarding Standard Analysis for Independent Fishing Vessels

SUMMARY OF THE SEIZURE OF THE TAIWANESE STERN
TRAWLERS HIGHLY 301 AND HIGHLY 302

On 19 August boarding parties from the USCGC MORGENTHAU boarded both vessels while they lay at anchor in Sand Bay, Great Sitkin Island. The boardings revealed that both vessels were entering processed fish weight in their daily cumulative catch log instead of the required round weight. Further investigation revealed that the weekly catch reports received by NMFS also reflected processed weight values. Both vessels were subsequently seized on 20 August and are presently being escorted to Kodiak where the cases will be turned over to the U.S. Attorney.

	HIGHLY 301	HIGHLY 302
WEIGHT OF PROCESSED FISH ABOARD	33.26 MT	177.55 MT
ROUND WEIGHT (60% RECOVERY)	55.43 MT	295.92 MT
VESSELS DCCL	26.1 MT	152.4 MT
DIFFERENCE	24.33 MT	143.52 MT
% DIFFERENCE	52.9 %	48.5 %

COAST GUARD PATROL EFFORT (1979)

	CUTTER PATROL DAYS	AIRCRAFT PATROLS HOURS	MILES PATROLLED	FISHING VESSEL IDENTIFICATIONS							TOTAL	FISHING VESSEL BOARDINGS						
				JA	KS	PL	TW	MX	UR	JA		KS	PL	TW	MX	UR	TOTAL	
JANUARY	32	67	29848	161	58	0	3	0	31	255	4	7	0	0	0	0	11	
FEBRUARY	25	128	16920	320	24	0	6	2	57	409	6	2	0	1	0	6	15	
MARCH	31	176	24071	257	31	3	4	8	77	380	2	0	0	0	2	6	10	
APRIL	53	170	32044	448	73	22	4	0	19	566	23	9	2	0	0	1	35	
MAY	93	162	27440	514	72	23	6	2	8	625	35	6	1	0	0	3	45	
JUNE	48	131	53997	643	96	21	0	10	50	820	25	7	1	0	2	7	42	
JULY	32	153	43144	684	104	19	3	16	68	894	11	1	0	0	1	5	18	
AUGUST	35	128	18803	311	41	10	2	7	48	419	10	4	0	2	0	0	16	
(1-19)																		

(ENCLOSURE 2)

ANALYSIS OF BOARDING AND ENFORCEMENT INCIDENTS
(BOARDINGS/INCIDENTS) *

	JAPAN	USSR	S. KOREA	POLAND	TAIWAN	MEXICO	ALL	%BOARDINGS RESULTING IN INCIDENT
JANUARY	4/1	0/0	7/1	0/0	0/0	0/0	11/2	18%
FEBRUARY	6/1	6/0	2/1	0/0	1/0	0/0	15/2	13%
MARCH	2/1	6/1	0/0	0/0	0/0	2/1	10/3	33%
APRIL	17/1	1/0	7/0	2/0	0/0	0/0	27/1	03%
MAY	35/2	3/0	6/0	1/1	0/0	0/0	45/3	07%
JUNE	25/2	7/2	7/2	1/0	0/0	2/0	42/6	14%
JULY	11/1	5/1	1/0	0/0	0/0	1/0	18/2	11%
AUGUST (1-19)	10/1	0/0	4/0	0/0	2/2	0/0	16/3	19%
CUMULATIVE TOTAL	110/10	28/4	34/4	4/1	3/2	5/1	184/22	12%

*NOTE: DOES NOT INCLUDE INFRACTIONS DETECTED BY MEANS OTHER THAN BOARDINGS

SURVEILLANCE STANDARD ANALYSIS
FOR INDEPENDENT FISHING VESSELS

TIME PERIOD	NUMBER OF F/V ON GROUNDS FOR ENTIRE PERIOD	NUMBER F/V ON GROUNDS FOR ENTIRE PERIOD THAT WERE SIGHTED	%SIGHTED
01 - 14 JAN 79	61	59	97
08 - 21 JAN 79	72	66	92
15 - 28 JAN 79	100	96	96
22 JAN - 11 FEB 79	117	104	89
29 JAN - 11 FEB 79	133	121	91
05 - 18 FEB 79	143	138	97
12 - 25 FEB 79	144	136	94
19 FEB - 04 MAR 79	122	115	94
26 FEB - 11 MAR 79	120	92	77
05 - 18 MAR 79	118	87	74
12 - 25 MAR 79	113	86	76
19 MAR - 01 APR 79	100	75	75
26 MAR - 08 APR 79	110	10	82
02 - 15 APR 79	103	90	87
09 - 22 APR 79	102	94	82
16 - 29 APR 79	112	95	85
23 APR - 06 MAY 79	120	98	82
30 APR - 13 MAY 79	126	113	90
07 - 20 MAY 79	125	110	88
14 - 27 MAY 79	114	82	72
21 MAY - 03 JUN 79	117	86	79
28 MAY - 10 JUN 79	131	105	80
04 - 17 JUN 79	133	109	82
11 - 24 JUN 79	155	108	70

(ENCLOSURE 4)

18 JUN - 1 JUL 79	121	96	79
25 JUN - 8 JUL 79	124	124	100
2 JUL - 15 JUL 79	143	123	86
9 - 22 JUL 79	143	116	81
16 - 29 JUL 79	139	108	78
23 JUL - 12 AUG 79	142	111	78
30 JUL - 12 AUG 79	139	104	75
6 - 19 AUG 79	127	101	80

BOARDING STANDARD ANALYSIS FOR INDEPENDENT FISHING VESSELS

MONTH	GOAL	ACTUAL BOARDINGS	ACHIEVED
JANUARY	30	11	36%
FEBRUARY	47	15	32%
MARCH	46	10	22%
APRIL	42	27	64%
MAY	47	45	94%
JUNE	52	42	81%
JULY	56	18	32%
AUGUST (1-19)	34	16	47%
CUMULATIVE TOTAL	354	184	52%

NOTE: BOARDINGS GOAL IS TO BOARD EVERY INDEPENDENT FISHING VESSEL ONCE PER QUARTER ON THE AVERAGE

V-4- SSC + AP Non-Agenda Items.

SCIENTIFIC & STATISTICAL COMMITTEE MEETING

August 21-22, 1979

Anchorage, Alaska

The SSC met in the Conference Room of the Council Offices beginning at 10:00 a.m. on Tuesday, August 21th and again on August 22nd. The following members were present:

Steve Pennoyer, Chairman

Al Millikan

Don Bevan

George Rogers

Don Rosenberg

Jim Balsiger as Alternate for Frank Fukuhara

Larry Hreha as Alternate for Jack Robinson

Jerry McCrary as Alternate for Jack Lechner

NON-AGENDA ITEMS

The SSC discussed several subjects that were not on the Council Agenda. They were as follows:

a. OY Guidelines

The Committee received a memorandum from Mr. Leitzell regarding review of proposed guidelines on OY determination. We also looked at a letter draft from the Pacific Council SSC on this subject.

We feel that the guidelines proposed are not particularly useful in that they do not address the concepts of OY previously suggested by both the Pacific and North Pacific Councils. We suggest that the Council repeat their support for the concept of OY as a long term modification of MSY and TAC as an annual derivation from ABC.

We do wish to point out some concern that the section on options proposed in this memorandum could lead to the inclusion of so many options in a plan that the public could be confused as to areas requiring meaningful comment. It is our feeling that plan options should only refer to alternatives considered meaningful by the PDT's and Council.

b. King Crab FMP

The SSC reviewed a report of its Subcommittee on the King Crab FMP which summarized Committee suggestions to the PDT on the plan. The report is being sent to PDT members for their comment. The Team is being asked to consider these comments and interact with our Subcommittee in an early September meeting.

This meeting will give the PDT an opportunity to clarify any areas of concern and decide on a schedule for completion of the first draft to the Council.

We recommend to the Council that Dave Somerton currently with NORFISH of the University of Washington, be appointed to both the King and Tanner Crab PDT's. Mr. Somerton has considerable expertise in crab population dynamics analysis which will be valuable to Team deliberation.

c. Herring Workshop

The SSC reviewed a proposal for a Bering Sea Herring Workshop presented by the Herring Plan Development Team. The Workshop would draw scientists from Europe, Canada and the U.S. to outline management regimes in other areas and focus their experience on Bering Sea management.

The proposal outlines a 3-day Workshop in Anchorage in February with a budget of approximately \$7,500. The SSC recommends approval of the Workshop. We believe the experiences and perspectives of world wide experts will be a valuable to the PDT and the Council in formulating management regimes for this developing herring fishery.

August, 1979

SSC MEMBERSHIP

The SSC recommends that Dr. Richard J. Marasco be appointed to the SSC vacancy created by the resignation of Dr. James Crutchfield.

Dr. Richard J. Marasco received his Bachelor Degree and his Masters Degree in economics from Utah State University, and earned his Doctorate in Agricultural Economics from the University of California, Berkly in 1969. He was on the Department of Agruculture Resource Economic faculty at the University of Maryland from 1970 to 1976 teaching undergraduate and graduate courses in Agricultural Resource Economics and conducting research in a variety of areas including fisheries economics, demand analyses for food items and regional economics.

In 1976 he joined the NMFS working out of the Washington, D.C. Division of Economics and Marketing Research and devoting much of his time to determining economic impacts of various fishing policy alternatives.

In 1977 he moved to the NWAFC in Seattle where he has been involved with a number of projects including economic analyses of multi-species fisheries and the development of regulatory analysis for the aborted halibut plan and for the Bering Sea Groundfish Plan.

The SSC also recommends that Dr. Robert L. (Bud) Burgner be appointed to replace Dr. Donald Bevan on the Committee. Dr. Burgner received his PhD from the University of Washington in 1958. He is Director, Fisheries Research Institute and a Professor of Fisheries at the University of Washington. He has 33 years experience in Alaska fishery research and is a scientific advisor on INPFC.

The SSC nominated a Subcommittee of Jack Robinson, Donald Rosenberg and James Balsiger to review the Bering Sea Clam Plan with the PDT in early September.

Bering Sea Herring FMP

The SSC has carefully reviewed the Bering/Chukchi Sea Herring Plan. It is a very readable document and obviously reflects thoughtful and comprehensive work by the Plan Development Team. The SSC commends the Team for its fine effort.

During the plan development process the SSC Herring Review Subcommittee met twice with the Team. Concerns and recommendations expressed at those meetings were fully and satisfactorily addressed by the Team. The plan in its present form incorporates the advice of the Subcommittee.

During the Tuesday (August 21) plan review by the SSC as a whole, some revisions were suggested to clarify the concepts and formulation of Optimum Yield (OY), Total Allowable Catch (TAC), Domestic Annual Harvest (DAH) and the Total Allowable Level of Foreign Fishing (TALFF). We also recommended the Team prepare hypothetical management scenarios to provide examples of how the management regime will operate under differing stock levels, harvest rates and environmental conditions. These improvements have been made and were approved by the SSC but, obviously, could not be included in the Draft Plan.

The SSC recommends that the Council approve the Plan for public review and instruct the Team to insert the revisions in the Plan in final preparation for printing and distribution. The SSC feels no need to review the Plan again until the public review is complete.

August, 1979

Bering Sea/Aleutian Islands Groundfish FMPEstimates of Domestic Annual Harvest (DAH)

We have reviewed the comments provided by NMFS regarding the estimate of DAH in the plan. We do not find any scientific basis for modification of the DAP portion of that estimate. The DAH (DAP) in the plan (24,600 mt) is based upon a survey of processors made in March, 1978. That was and still is the best scientific data available for estimating the DAP portion of DAH. The Council should note that the actual performance by the industry does indicate that the estimate may be high but there is no scientific data to determine how much DAP should be lowered.

We do take exception to the reviewer's inference that DAH should be based on only historical catch data. In a developing fishery, DAH must also include an industry estimate of expansion. One of the objectives of this plan is the orderly development of the domestic fishery and therefore we believe that greater weight must be given to the industry estimate than to the historic catch data. For example, if the Council had used only the historic catch data for C. opilio in the estimation of DAH in the Tanner Crab FMP, the plan would have greatly underestimated the catch and processing which did take place.

It should also be noted that the amendment for release of DAH will allow OY to be achieved (assuming foreign fishing) even if the DAH estimate is too high.

We did enquire if catch for bait and subsistence had been included in the original DAH. We find that it was not and believe that an estimate should be included. We concur with the Council staff that the best estimate for DNP is 1,500 mt.

We reviewed the data presented by the Council staff regarding estimates of the joint venture portion (JVP) of DAH. We found no grounds for modification of this industrial estimate of 104,600 mt. We do believe that this estimate can be largely taken care of by the reserve should the joint ventures actually perform at the estimated level. Therefore we recommend that the JVP be set at 32,300 mt (104,600-72,300).

In summary, we recommend that DAH be now estimated as 58,400 mt. This is based on an estimate of 24,600 mt for DAP, 1,500 mt for DNP and 32,300 mt for JVP.

We reviewed the proposed increase in OY for "Other Species" from 55,500 mt to 72,200 mt. Mr. Larkins described the means by which the original OY was established and the rationale for the increase. We agree to the proposal noting that we will have observer data which will indicate any major changes in the species composition of the category.

The Committee also reviewed the addition of the fourth category, "Non-Specified Species", which would eliminate the problems encountered in the "Other Species" category. We find this addition to be in accordance with the recommendation of the Council's Committee on Incidental Species and concur with its conclusion. We did note that where possible the scientific name should be included in the list and that U.S. observer data should continue to be gathered on the amount and makeup of the category.

Incidental Salmon Catches in Foreign Trawl Fisheries of the Bering Sea

The SSC reviewed information on incidental catches of salmon taken in the Bering Sea by foreign trawl fisheries. A new report (August 15) by Loh-Lee-Low suggested that a winter (November to February) closure of Bering Sea Area II would protect about 90% of all incidentally caught salmon. Other possible time/area combinations were not evaluated in this most current review.

The value of the winter foreign trawl fishery in Area II in the Bering Sea was approximately \$33,000,000 in 1978 (based on a weighted average of DOC fees for 1978). The value of incidentally caught salmon in the same time/area was about \$100,000. The Hokuten Trawlers and Japan Deep Sea Trawlers estimated that if they were closed out of Area II in the winter they would be able to recoup only about 25% of the last catch by a reallocation of effort over other times and areas. The mothership fleets do not operate here in the winter so the net loss accruing to foreign trawl fleets would be about \$25,000,000.

Clearly, the impact on foreign fisheries of a winter closure in Area II far exceeds the value of the potential salmon, and the SSC recommends that the closure not be implemented.

The SSC suggests that a further analysis of incidental salmon catches be undertaken to determine if a smaller time/area closure could be identified which would have a lesser impact on the foreign trawl fisheries while simultaneously providing some protection for salmon. Specifically, the impacts on these two fisheries of those time/area closures considered as options for herring protection in the herring FMP should be examined.

A discussion of the relative precision and accuracy of incidental catch estimates as projected from observer data collections should be made. Between year variation (1977 vs 1978 vs 1979) in salmon incidence rates should be summarized to provide information on the validity of applying, by time/area blocks of various dimensions, previous years incidental catch rates to current and future fisheries.

The Hokutan Trawlers provided the SSC with data suggesting that incidence rates of salmon are much greater in water deeper than 200 m compared with water shallower than 200 m. The analysis of observer data should include the evaluation of salmon incidences and trawl operations by depth if sufficient data exists to stratify the Bering Sea in this manner.

Gulf of Alaska Groundfish FMP

The Scientific & Statistical Committee addressed the Gulf of Alaska Groundfish amendment package and also discussed the proposed Secretarial amendment. We wish to encourage the Secretary to extend the plan year through October 31, 1980 using a Secretarial Amendment if that is the only means of extending the plan in a timely manner. No other part of the Secretarial amendment was addressed, rather the Committee recommends adoption of the Council amendment package with the following comments:

Part 1

The Committee adopted the amendment to extend the FMP through October 31, 1980 as an expedient means of not allowing the plan to expire. They noted this was not the most desirable way of dealing with a plan year and expect that the series of spring amendments will address a multiple-year concept.

Part 2

The Committee reviewed the four subparts to the amendment implementing the provisions of the Processor Preference Amendment with the following comments:

- a. Redefine DAH and RESERVE - The Committee did not disagree with any formula presented but did expand the definition for DAH and JVP. DAH they felt was the expected domestic annual harvest that will be utilized. JVP, they felt, is that portion of DAH which is available and expected to be delivered to foreign processing vessels by U.S. ships. Essentially the comments focused on the relationship of fishing intent with processing intent and the need to consider each in the derivation of the other. For example, they felt that DAP estimates must be closely linked with known fishing intent.

- b. Redefine Procedures - Again the Committee felt that DAH was an estimate of the expected domestic annual harvest that will be utilized and can be comprised of three elements, DAP, DNP and JVP. They felt that DAH must be reevaluated bi-monthly through the eighth month to determine whether reserves would be needed to handle excessive DAH or whether surplus DAH would be available to TALFF. The Committee felt that the reserve should also be assessed bi-monthly through the eighth month to determine if amounts in DAH will be adequate for the year.
- c. New Estimates - DAH and Reserve - The Committee discussed at great length the formula $DAH = DAP + DNP + JVP$. They agreed that JVP is only allowed if the estimated U.S. harvesting capacity exceeds the estimates of DAP and DNP. They were mostly concerned that DAP was not tied to the actual number of vessels that would be fishing for a processor. The Committee chose to accept an Advisory Panel recommendation that the JVP estimate be lowered to 25,000 tons. They noted then, (?) the resultant 49,000 ton DAH did fall within a survey range of likely U.S. harvesting and intent and capacity. The reduction in JVP, they felt, did not diminish the overall DAH capability as 74,000 tons were still in reserve and fully capable of handling all estimates of DAP, DNP and JVP. They noted that this recommendation unilaterally reduced the JVP estimates to 26% of the original estimate.

The Committee listened to Mr. Paul MacGregor representing the North Pacific Longline Gillnet Association who asked the Committee to carefully consider the total DAH request for sablefish, especially in the eastern district. Mr. MacGregor pointed out that the DAH appeared unattainable in light of this year and last year's catch data. He asked the Committee to consider placing an amount of DAH in reserve. The Committee noted that the Advisory Panel action to reduce the JVP for sablefish in all areas placed additional amounts to TALFF. We noted that foreign longlining is prohibited east of 140° West

longitude, that that proportionate amounts of OY and DAH may not, be available for any release to TALFF. The SSC asked the Plan Drafting Team to look at the matter and consider what changes may be necessary to the plan to accommodate areal divisions of OY, DAH, RESERVE and TALFF. We feel that the release of sablefish reserves in other areas should be carefully considered in view of the U.S. catches to date. The Committee took no action on the request by Mr. MacGregor but noted the Drafting Team will be working on the problem.

- d. Provisions for Review - The Committee studied the recommendations of the DAH Working Group for the reassessment and possible release of RESERVE and DAH at six and eight months and concurred with the idea of establishing a mechanism in the plan to periodically review and, if appropriate, release DAH as well as RESERVE to TALFF. The Committee noted that a bi-monthly review schedule during the first 8 months would not restrict the Council's flexibility as much as the proposed 6 and 8 month schedule. The Committee recommends that the DAH and RESERVE review schedule be handled bi-monthly through the eighth month and at other times as needed. The Committee adopted the following language from the errata which says, page 6, Section 611.92 (b) (ii) reserves and DAH (A) apportionment of RESERVES and DAH amounts. As soon as practicable after each of the following dates and on other dates as required the Regional Director shall review and if appropriate, allocate to the TALFF a percentage of the reserve and DAH amount set out in Table 1 of this section for each species in each fishing area: January 2, March 2nd, May 2nd, and July 2nd.

Part 3

The Committee reviewed, with Dr. Balsiger from the Management Plan Drafting Team the recommended changed OY's and concurred with the recommendation to increase the Atka mackerel OY to 28,700 metric tons and to increase the Pacific cod OY to 60,000 tons. Both estimates were based on new survey information.

Part 4

The Committee studied the recommendation to create a new category for idiot rockfish (Sebastolobus) and establish an OY of 3,750 metric tons. The Committee listened to Mr. Jay Hastings who discussed the problems associated with the areal division of an incidental species, the further division for the allocations to each foreign country and the further division of the allocation within internal fishing groups. Because the creation of the new category for idiot rockfish is a direct result of the large incidental catch by the foreign longliners fishing sablefish not enough is known of the distribution of Sebastolobus to assign the OY to any particular area. Therefore, the SSC recommends that the OY for Sebastolobus be for the entire Gulf.

Part 5

The Committee adopted the amendment to establish a policy statement in the plan as proposed in the Council's amendment. They felt that it was an obvious and very straight-forward expression of the Council's intent to consider the request of any U.S. processor for some kind of time and/or area protection.

Part 6

The SSC earlier discussed the reporting requirements amendment for the Bering Sea Groundfish Plan. We wish to adopt the recommendation we made for the Bering Sea Groundfish Plan for the Gulf of Alaska FMP.

- (b) Reports - All processors of groundfish and buyers of groundfish whose purchases enter non-processed fish markets except fishermen buying for their own bait needs and persons delivering U.S. caught groundfish to foreign processor vessels shall report information required for periodic reassessment of JVP. The

regulations implementing this plan specify the information be reported and the time schedule for reporting.

The Committee considered a request by Mr. Paul MacGregor to carryover unharvested portions of the sablefish OY into the 1980 plan. After conferring with Dr. Balsiger, the Committee, as did Mr. Paul MacGregor, agreed that any new resource estimate would automatically take into account unharvested portions of the OY. The Committee took no action on the request.

August, 1979

The Socioeconomic Data Needs of Fishery Management Plans --- A Report

The SSC reviewed the report of the Working Group on socioeconomic data needs. Dr. George Rogers summarized the report's findings and recommended that the report be adopted by the Council, published and provided to Council advisory bodies and plan development teams as a guideline and also sent back to Washington as our partial answer to the proposed Centaur and Associates study. We concurred with these recommendations. We think the Working Group is to be commended for their efforts in producing a report that is very well written and immediately applicable to plan development.

We did note that the Working Group did not address ways and means to rectify data deficiencies. We suggest that the Working Group be continued and deal with questions of who should collect various data and how to make existing data more available.

Contract 78-9 The Pilot Troll Salmon Observer Program

The SSC recommended that the Council approve final payment of this contract. They feel that although some comparison of data is still possible at a later stage, it does not warrant financial penalty and recommended the Council approve payment.

August, 1979

Contract 78-7: The Salmon Tag Recovery Program

The SSC reviewed the Contract and the final report from the contractor. The Committee recommended the Council approve final payment of this contract. We noted that there is still a need, not adequately addressed in the contract language or funding and therefore not in the report, for analysis of tag recovery data in terms of actual exploitation rates of various stocks in the Alaska troll fishery. These questions and analysis of the importance of pertinent logbook, fish ticket and observer data to management of Alaskan troll fisheries need to be the subject of further research.

Contract Proposal for Troll Fisheries Data Analysis

The Committee reviewed a proposal from the Alaska Department of Fish and Game to analyze data on the troll fishery for coho and chinook stocks in and off Southeast Alaska. We felt the proposal has merit but that the objectives and deliverables need further review and possibly some tightening up. We recommended a subcommittee composed of Dr. Burgner, Don Rosenberg and Jim Balsiger meet with the contract in mid-September to accomplish this.

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Bering Sea Clam Leasing Study Proposal

The Committee felt that some combination of a renegotiation of the University of Washington proposal and the ADF&G/NMFS study should be pursued regarding a study of the legal ramifications of sea bed leasing.

Halibut Tickets

Not enough information was presented to the Committee to determine the need for funding a CFEC proposal to keypunch halibut fish tickets. Further information was requested through the Council staff from the Commercial Fisheries Entry Commission.