MEMORANDUM

TO:

Council, SSC and AP Members

FROM:

Clarence G. Pautzke

Executive Director

DATE:

September 14, 1993

SUBJECT:

Gulf of Alaska Groundfish

ESTIMATED TIME

4 HOURS (For all D-3 Items)

ACTION REQUIRED

(a) Review 1994 Preliminary Stock Assessment and Fishery Evaluation (SAFE) document.

- (b) Set initial 1994 Acceptable Biological Catch (ABC) limits and Total Allowable Catches (TAC) limits for all groundfish.
- (c) Set initial 1994 Prohibited Species Catch (PSC) limits for halibut.

BACKGROUND

SAFE Document

The groundfish Plan Teams met in Seattle during the week of September 7-10, 1993 to prepare the preliminary SAFE document provided at this meeting. This SAFE forms the basis for preliminary groundfish specifications for the 1994 fishing year. Many individual species or species complex stock assessments contained in the preliminary SAFE remain unchanged from the 1993 final SAFE. Any changes were based on incorporation of updated stock survey information (such as the annual longline survey), updated catch information, inclusion of discard estimates, or refinement of stock modeling parameters. New or revised assessments were made for pollock, Pacific cod, demersal shelf rockfish, slope rockfish, and Atka mackerel.

This preliminary SAFE for the Gulf of Alaska contains the Plan Team's estimates of biomass and ABCs for all groundfish species covered under the Gulf FMP and information concerning bycatch of halibut to provide guidance to the Council in establishing PSC apportionments. The attached tables from the SAFE lists 1993 ABCS, TACs, and catches to date, and the Plan Team's recommended ABCs and corresponding overfishing levels for each of the species or species complexes. None of the Plan Team's recommended ABCs exceeds the overfishing level.

Set Initial ABCs, TACs, and Apportionments for the 1994 Fisheries

During the week of this Council meeting, the SSC and AP recommendations will be provided to the Council. In 1993, all TACs were apportioned to Domestic Annual Processing (DAP). Under Amendment 21, 25% of the initial specifications for groundfish (from September) will go forward as

interim specifications for the 1994 fisheries until superseded by publication of the Council's recommended final specifications in the *Federal Register*, sometime in early 1994.

Set Initial PSC Limits for Halibut

Amendment 21 clarifies the halibut PSC framework to permit the Council to specify PSC limits by season and by gear type. The Council recommended the following apportionments for 1993.

<u>Tra</u>	wl Gear	Hook an	d Line Gear
1st quarter 2nd quarter 3rd quarter 4th quarter	600 mt (30%) 400 mt (20%) 600 mt (30%) 400 mt (20%)	1st trimester 2nd trimester 3rd trimester	200 mt (26.7%) 500 mt (66.7%) 50 mt (6.7%)
TOTALS	2000 mt		. 750 m t

Of the 750 mt PSC limit for fixed gear, 10 mt was apportioned specifically to the demersal shelf rockfish fisheries in Southeast Alaska. Pot gear was exempted from PSC closures.

Appendix I of the 1994 preliminary SAFE report contains information on halibut bycatch in the 1993 groundfish fisheries in the Gulf of Alaska. The information in this section details the occurrence of halibut bycatch by time, area, and fishery.

A review of the 1993 fisheries provides some insight on bycatch needs for 1994. In 1993, bottom trawling was prohibited on March 24, when the first quarter halibut PSC allowance of 600 mt was reached. The second quarter allowance lasted only three weeks, with the bottom trawl fisheries closing on April 19. Through August 14, total halibut bycatch mortality from trawl gear was 1,641 mt, and 1,408 mt for hook and line gear. The 1993 sablefish fishery took 1,176 mt, or 84% of the GOA hook and line halibut bycatch mortality. The other hook and line fisheries, including the Pacific cod fishery, had lower halibut bycatch mortality in 1993 (232 mt).

Table 1. Groundfish maximum sustainable yields (MSYs), 1993 and 1994 ABCs, 1993 TACs, and 1993 catches through August 21, 1993.

ABCS, 1993 TACS,	מונע ביייי					
Species			ABC (I	(mt)	1993	1993
	MSY (mt)		1993	1994	TAC	Catch
Pollock	Unknown	W(61)		37,320	24,087 25,974	20,540 20,603
		C(62)		94,430		45,649
			3,400 160,400	12,250 184,250		87,219
Pacific cod 1	Unknown	១៩	18,700 35,200	17,400 32,700	18,700 35,200	18,356 33,152
		E Total	2,800 56,700	2,600 52,700		1,555 53,063
Flatfish¹ (deep water)	7,940	E C Fotal	2,020 35,580 7,930 45,530	740 20,680 4,490 26,410	1,740 15,000 3,000 19,740	324 5,917 124 6,365
Rex sole ²	5,750	E C Fotal	included in deepwater flatfish	1,280 14,900 2,940 19,120	included in deepwater flatfish	
Flatfish³ 2 (shallow water)	28,254 r)	E C Potal	27,480 21,260 1,740 50,480	27,480 21,260 1,740 50,480	4,500 10,000 1,740 16,240	380 4,820 5 5,205
Flathead sole	16,589	E Fotal	12,580 31,830 5,040 49,450	12,580 31,830 5,040 49,450	2,000 5,000 3,000 10,000	607 1,803 7 2,417
Arrowtooth :	110,042	BOCtal	38,880 253,330 29,080 321,290	38,880 253,330 29,080 321,290	5,000 20,000 5,000 30,000	1,852 15,656 813 18,321

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Table 1 (cont.) Groundfish maximum sustainable yields (MSYs), 1993 and 1994 ABCs, 1993 TACs, and 1993 catches through August 21, 1993.

Species			ABC	(IIIC)	1993	1993
-	MSY (mt)		1993	1994	TAC	Catch
Sablefish	23,700	W	2,030	2,030	2,030	726
Sablelish	23,700	Ċ	9,610	9,610	9,610	11,945
		WYK	3,830	3,830	3,830	4,561
		SEO	5,430	5,430	5,430	5,367
		Total	20,900	20,900	20,900	22,599
		W	330	330	214	444
Slope rockfish	Unknown	Ċ	1,640	1,640	1,064	1,541
(other)	CHRICHI	E	6,330	6,330	4,105	1,455
		Total	8,300	8,300	5,383	3,440
		W	1,000	1,000	1,000	798
Northern Rockf	isn	Č	4,720	4,720	4,720	3,822
	Unknown	E	40	40	40	61
		Total	5,760	5,760	5,760	4,681
	_ •	7.7	753	760	341	492
Pacific Ocean	Percn	W C	949	950	949	1,177
	Unknown	E	1,676	1,670	1,270	511
		Total	3,378	3,380	2,560	2,180
		7.7	100	100	90	135
Shortraker/Ro		W	1,290	1,290	1,161	1,190
	Unknown	C E	570	570	513	538
		_	1,960	1,960	1,764	1,863
		Total	1,560	1,200	2,.32	•
n.l.win abalf		W	1,010	1,010	1,010	260
Pelagic shelf	Unknown	Ċ	4,450	4,450	4,450	1,773
rockfish	JIKIIOWII	Ē	1,280	1,280	1,280	1,058
		Total	6,740	6,740	6,740	3,091
Demersal shel	f Unknown	SEO	800	943	800	5244

⁽continued on next page)

Table 1 (cont.) Groundfish maximum sustainable yields (MSYs), 1993 and 1994 ABCs, 1993 TACs, and 1993 catches through August 21, 1993.

Species			ABC	(mt)	1993	1993
-	MSY (mt)		1993	1994	TAC	Catch
Atka mackerel	Unknown	GW	included in other	4,800	included in other	3,2585
Thornyhead rockfish	Unknown	GW	1,180	1,180	1,062	1,395
Other species		W	NA	NA	3,053	5,645
Jenes Special		С	NA	NA	9,721	2,990
		E Total	NA	NA	1,828 14,602	664 9,299
Totals			732,868	738,543	306,651	221,662

- Shelikof Strait pollock is included within the 1/ W/C ABC range.
- *Deep water flatfish* means rex sole, Dover sole, and Greenland turbot in 1993. In 1994 included 2/ rex sole is a separate target category.
- "Shallow water flatfish" means rock sole, yellowfin 3/ sole, butter sole, starry flounder, and other flatfish not specifically defined.
- Catch of Atka mackerel is 3,258 mt. 4/
- Demersal Shelf rockfish catch includes 103 mt of 5/ unreported mortality from halibut fisheries.

NOTE: GW means Gulfwide

ABCs are rounded to nearest 10.

Catch data source: NMFS Blend Reports. Northern Rockfish were separated from Slope Rockfish in 1993. Atka mackerel may be separated from "other species" in 1994.

Table 2. Exploitable biomasses, 1994 ABCs, and estimated trends and abundances of groundfish.

Exp	oloitable			1994 Overfishing	Abundance,
Species	Biomass (m	t)	ABC	Level	Trend
Pollock	726,000	{ W(61) { C(62) { C(63)	37,320 40,250 94,430	3 230,000	Low, stable
		E Total	12,250 184,250	16,400 246,400	
Pacific cod	324,000	W C	17,400 32,700		Medium, declining
		E Total	2,600 52,700	68,400	
Flatfish (deep water)	132,030	W C	740 20,680		High, . stable
(deeb warer)	. u -	E Total	4,490 26,410	34,590	
Rex sole	95,630	W C	1,280 14,900		High
		E Total	2,940 19,120		
Flatfish (shallow wate	261,724	W C	27,480 21,260		High, stable
(Sharrow was	,	E Total	1,740 50,480		
Flathead sole	247,247	W	12,580 31,830		High, stable
		E Total	5,040 49,450		•
Arrowtooth flounder	1,889,922	W C	38,880 253,330		High, stable
Tioduder		E Total	29,080 321,290)	
Sablefish	190,400	W C	2,030 9,610		Medium, decreasing
		WYK SEO	3,836 5,436	0 0	slightly
		Total	20,90	0 27,750	

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Table 2. (cont.) Exploitable biomasses, 1994 ABCs, overfishing levels, and estimated abundances and trends of groundfish.

Expecies	ploitable Biomass (mt)		ABC I	Overfishing	Abundance, Trend
Slope rockfish (Other)	134,400	W C E Total	330 1,640 6,330 8,300	9,850	Low, unknown
Northern Rockfish	96,070	W C E Total	1,000 4,720 40 5,760	10,360	Relative abundance unknown
Pacific ocean Perch	156,400	W C E Total	760 950 1,670 3,380	3,380	Low, stable
Shortraker/ Rougheye	72,961	W C E Total	100 1,290 570 1,960		Low, unknown
Pelagic shelf rockfish	74,900	W C E Total	1,010 4,450 1,280 6,740		Relative abundance unknown
Demersal shelf rockfish (SE Outside di		SEO	970	1,680	Low, stable
Atka mackerel	32,100	GW	4,800	19,040	Low, unknown
Thornyhead rockfish	26,207	Gulfwide	1,180	1,440	Low, decreasing
Other species	NA	W C E	NA NA NA		TAC = 5% of the sum of TACs

Note: ABCs and Overfishing are rounded to nearest 10.

Overfishing is defined Gulf-wide.

Northern Rockfish were separated from Slope Rockfish in 1993.

Atka mackerel may be separate from "other species" in 1994.

Rex sole was part of deepwater flatfish until 1994.



UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration

National Marine Fisheries Service P.O. Box 21668 Juneau, Alaska 99802-1668

AGENDA D-3 SEPTEMBER 1993

September 16, 1993

Mr. Richard B. Lauber Chairman, North Pacific Fishery Management Council P.O. Box 103136 Anchorage, Alaska 99510

Dear Rick,

Standard bycatch rate standards for trawl fisheries under the Pacific halibut and red king crab vessel incentive program during the first half of 1994 are scheduled to be published in the Federal Register by January 1, 1994. A summary of 1991, 1992, and 1993 observer data on fishery bycatch rates are listed in the attached table. The Council may wish to review this data when recommending halibut and red king crab bycatch rate standards for the first half of 1994.

Sincerely,

Steven Pennoyer

Director, Alaska Region



1991 - 1993 (through 09/04/93) observed bycatch rates, by quarter, of halibut and red king crab in the fishery categories included in the vessel incentive program. The 1993 bycatch rate standards also are listed.

Halibut Bycatch (Kilograms Halibut/ MT Allocated Groundfish Catch

Halibut Bycatch	(KIIOGIAMB NAIIDUC) MI			
Fishery and quarter	Bycatch		red Bycatch 1	
	Rate Standards	<u>1991</u>	<u> 1992</u>	<u>1993</u>
BSAI Midwater Pollock				
OT 1	1.0	0.05	1.40	0.95
OT 2	1.0	0.17	0.73	0.20
QT 3	1.0	0.55	0.50	0.05
OT 4	1.0	***	0.40	****
Year to date		0.23	0.87	0.66
BSAI Bottom Pollock				
OT 1	7.5	14.30	7.58	7.59
QT 2	5.0	8.27	4.34	2.72
QT 3	5.0	1.89	2.31	1.03 ****
QT 4	5.0	0.00	0.29	
Year to date		4.13	5.64	6.35
BSAI Yellowfin sole (in 1991	, includes 'other flatf	ish')		***
QT 1	5.0	5.38	***	
QT 2	5.0	2.45	3.40	13.78 2.13
QT 3	5.0	7.17 2.99	3.71 5.52	2.13 ***
QT 4	5.0		4.02	10.75
Year to date		5.06	4.02	10.75
BSAI Other Trawl Fisheries			10.00	0.00
QT 1	30.0	13.82	12.20	8.80 ام 13.51
QT 2	30.0	20.04	16.25	2.53
QT 3	30.0	10.90	4.81 0.94	2.JJ ****
QT 4	30.0	30.10 16.24	12.83	9.44
Year to date		10.24	12.63	J
GOA Midwater Pollock			0 11	0.01
QT 1	1.0	0.05	0.11	0.02
QT 2	1.0	0.03	0.06 0.03	0.02
QT 3	1.0	0.18 0.89	0.35	***
QT 4	1.0	0.41	0.11	0.02
Year to date		0.41	V.11	0.02
GOA Other Trawl fisheries		22.06	19.75	34.75
QT 1	50.0	23.96 65.91	22.08	25.41
QT 2	50.0	23.59	24.14	30.07
OT 3	50.0 50.0	26.33	26.85	***
QT 4	50.0	31.07	21.95	30.63
Year to date				
(nu	Zone 1 Red King Crab B mber of crab/mt of allo	ycatch Rates cated groundfish		
BSAI yellowfin sole (in 199	1 & 1992. includes othe	r flatfish)		
OT 1	2.5	1.31	1.19	***
QT 2	2.5	1.44	1.34	3.27
QT 3	2.5	0.00	0.00	0.00
QT 4	2.5	***	***	***
Year to date		1.27	1.34	3.18
BSAI Other Trawl				
QT 1	2.5	0.93	1.19	مر 2.39
QT 2	2.5	0.02	1.72	0.03
QT 3	2.5	0.00	0.00	***
QT 4	2.5	***	***	
Year to date		0.78	1.21	1.50

Smith		900 MT	76776
THORN		EXEMPT	GROWDFISH POT
		341	OTHER NOW-TRAWL
ROLLOVER	ROLLOVER		SEP1- DEC 31
25%	40		MAY 1- AUG 31
~95%	685		JAN 1- APR1230
		725	PACIFIC COD
%	(F € 7)	CMT)	
SCASOWAL APPORTION FUT	SCASONAC AF	HALIBUT MORT YTY	FISHER" GROUP

GULF OF ALASKA TRAWL HALIBUT APPORTIONMENT WORKGROUP'S PROPOSAL FOR

GULF OF ALASKA TRAWL HALIBUT APPORTIONMENT

This proposal is submitted in lieu of exclusive registration for species other than pollock and cod in the Gulf of Alaska. Its purpose is to promote wise use of halibut bycatch, reduce conflict among user groups, allow the benefits of clean fishing to accrue to the fishermen who achieved the halibut savings and reduce the bycatch of sablefish, shortraker, rougheye, and thornyheads in the trawl fisheries.

Apportionment

Each quarterly trawl halibut bycatch allowance will be apportioned between the "deep water complex" and the "shallow water complex".

The Shallow Water Complex consists of: pollock, Pacific cod, shallow water flats, Atka mackerel, and other species.

The Deep Water Complex consists of deep water flatfish, rockfish, flathead sole, sablefish, and arrowtooth flounder.

Proposed Trawl Halibut Apportionment for 1994 (in metric tons of mortality)

Quarter	Shallow Water Complex	Deep Water Complex	Total
1	500	100	600
2	100	300	400
3	200	400	600
4	No apportionment between deep ar	nd shallow water complexes	400

There is no apportionment between the two complexes in the 4th quarter due to uncertainty over which species may be available by the 4th quarter.

Additional Elements of Proposal Package

- 1. Halibut allocation will be part of the annual specifications process.
- 2. Any overages or shortfalls of quarterly halibut bycatch within a complex will be deducted from or added to that complex's subsequent quarterly allocation.
- 3. Bycatch-only species may not be retained against arrowtooth flounder. This is to

re-addressed as the commercial arrowtooth flounder fishery develops.

- 4. Bycatch-only species may not be retained against other bycatch-only species.
- 5. The Gulf of Alaska VIP rate will be be adjusted from 5% to 4%.
- 6. Measures will be taken to increase the number of fishing opportunities in the Bering Sea during the 1st quarter. For example, the rockfish and the other flatfish fisheries in the Bering sea could be conducted earlier in the year.

This proposal sunsets three years after implementation or upon the implementation of a comprehensive rationalization program.

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	unuai 1994 F	rian Team, S	SC, and A	P recomm	engations and	apportionme	nts (metric tons)
Species	Area	ABC	1993 TAC	Cataba	Plan Team	SSC	Advisory Panel
				Catch*	1994 ABC	1994 ABC	1994 TAC
ollock	W (61)	34,068	24,087	20,540	37,320	16,930	16,930
	C (62)	36,737	25,974	20,603	40,250	18,250	18,250
	C (63) E	86,195	60,939	45,649	94,430	42,820	42,820
	E Total	3,400 160,400	3,400 114,400	427 87,219	12,250 184,250	5,550 83,550	5,550 83,550
acific Cod	W	18,700	18,700	18,356	17,400	17,400	
acmic cod	C C	35,200	35,200	33,152	32,700	32,700	17,400 32,700
	E	2,800	2,800	1,555	2,600	2,600	2,600
	Total	56,700	56,700	53,063	52,700	52,700	52,700
latfish, Deep	w	2,020	1,740	324	740	740	500
_	С	35,580	15,000	5,917	20,680	20,680	8,000
	Е	7,930	3,000	124	4,990	4,990	500
	Total	45,530	19,740	6,365	26,410	26,410	9,000
ex sole	w				1,280	1,280	500
	C	included in d	eepwater fla	tfish	14,900	14,900	7,000
	E				2,940	2,940	500
	Total				19,120	19,120	8,000
lathead sole	w	12,580	2000	607	12,580	12,580	2,000
	C	31,830	5,000	1,803	31,830	31,830	5,000
	E	5,040	3,000	7	5,040	5,040	3,000
	Total	49,450	10,000	2,417	49,450	49,450	10,000
latfish, Shallow	w	27,480	4,500	380	27,480	27,480	4,500
	C	21,260	10,000	4,820	21,260	21,260	10,000
	E Total	1,740	1,740	5 205	1,740	1,740	1,740
	Total	50,480	16,240	5,205	50,480	50,480	16,240
rrowtooth	w	38,880	5,000	1,852	38,880	38,880	5,000
	C	253,330	20,000	15,656	253,330	253,330	20,000
	E Total	29,080	5,000	813 18 221	29,080	29,080	5,000
.11 6 1		321,290	30,000	18,321	321,290	321,290	30,000
ablefish	W	2,030	2,030	726	2,030	2,030	2,030
	C W. Yakutat	9,610 3,830	9,610 3,830	11,945	9,610	9,610	9,610 3 830
	W. 1 akutat E. Yak./SEO	5,430	5,830 5,430	4,561 5,367	3,830 5,430	3,830 5,430	3,830 5,430
	Total	20,900	20,900	22,599	20,900	20,900	20,900
acific Ocean	W	753	341	492	760	760	341
erch	C C	949	949	1,177	950	950	949
··	E	1,676	1,270	511	1,670	1,670	1,270
	Total	3,378	2,560	2,180	3,380	3,380	2,560
hortraker /	w	100	90	135	100	100	90
ougheye	Ċ	1,290	1,161	1,190	1,290	1,290	1,161
	E	570	513	538	570	570	513
	Total	1,960	1,764	1,863	1,960	1,960	1,764
ockfish	w	330	214	444	330	330	214
Other Slope)	С	1,640	1,064	1,541	1,640	1,640	1,064
	E	6,330	4,105	1,455	6,330	6,330	4,105
	Total	8,300	5,383	3,440	8,300	8,300	5,383
orthern Rockfish	w	1,000	1,000	798	1,000	1,000	1,000
	C	4,720	4,720	3,822	4,720	4,720	4,720
	E Total	40 5.760	40 5.760	61 4 691	40 5.760	40 5.760	40 5.760
	Total	5,760	5,760	4,681	5,760	5,760	5,760
Rockfish	W	1,010	1,010	260	1,010	1,010	1,010
Pelagic Shelf)	C E	4,450 1,280	4,450 1.280	1,773	4,450	4,450	4,450
	E Total	1,280 6,740	1,280 6,740	1,058 3,091	1,280 6,740	1,280 6,740	1,280 6,740
NGD							
OSR	S.E. Out.	800	800	524	943	943	800
Thornyhead	Gulfwide	1,180	1,062	1,395	1,180	1,180	1,062
Atka mackerel	Gulfwide	with other	species	3,258	4,800	4,800	4,800
Other Species	Gulfwide	NA	14,602	9,299	NA	NA	14,602
GULF OF ALASI	ZA TOTAL	732,868	306,651	224,920	757,663	656,963	273,861

* Catch through August 21, 1993