North Pacific Fishery Management Council

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February 2, 2001

DRAFT AGENDA 149th Plenary Session North Pacific Fishery Management Council February 7-12, 2001 Hilton Hotel Anchorage, Alaska

The North Pacific Fishery Management Council will meet February 7-12, 2001, at the Hilton Hotel in Anchorage, Alaska. Additionally, on Tuesday, February 6, beginning at 1:00 p.m., the Council will meet in joint session with the Alaska Board of Fisheries at the 4th Avenue Theater, 630 W. 4th Ave, in Anchorage. Other meetings to be held during the week are:

Committee/Panel	<u>Beginning</u>
IFQ Implementation Team	1:30p.m., Sun., February 4 (Penthouse Mtg Room,
· •	Westmark Hotel, 720 W. 5th Ave.)
Advisory Panel	8:00 am, Mon., February 5 (Dillingham/Katmai Rm)
Scientific and Statistical Committee	8:00 am, Mon., February 5 (King Salmon Room)
Halibut Charter IFQ Workgroup	8:00 am, Mon., February 5 (Iliamna Room)
SSL Steering Committee	9:00 am, Tues., February 6 (4th Ave. Theater)
Gulf Ecosystem Research Overview	6:00 pm, Wed., February 7 (Aleutian Room)
Draft Groundfish SEIS Briefing	7:00 pm, Wed., February 7 (Aleutian Room)
GOA Rationalization Committee	6:00 pm, Thur., February 8 (Aleutian Room)

All meetings will be held at the hotel unless otherwise noted. All meetings are open to the public, except executive sessions of the Council. Other committee and workgroup meetings may be scheduled on short notice during the week, and will be posted at the hotel.

INFORMATION FOR PERSONS WISHING TO PROVIDE PUBLIC COMMENTS

Sign-up sheets are available at the registration table for those wishing to provide public comments on a specific agenda item. Sign-up must be completed **before** public comment begins on that agenda item. Additional names are generally not accepted **after** public comment has begun.

Submission of Written Comments. Any written comments and materials to be included in Council meeting materials must be received at the Council office by 5:00 p.m. (Alaska Time) on Wednesday, Jan. 31, 2001. Written and oral comments should include a statement of the source and date of information provided as well as a brief description of the background and interests of the person(s) submitting the statement. Comments can be sent by mail or fax-please do not submit comments by e-mail. It is the submitter's responsibility to provide an adequate number of copies of comments after the deadline. Materials provided during the meeting for distribution to Council members should be provided to the Council secretary. A minimum of 18 copies is needed to ensure that Council members, the executive director, NOAA General Counsel and the official meeting record each receive a copy. If copies are to be made available for the Advisory Panel (23), Scientific and Statistical Committee (13), staff (10) or the public (50) after the pre-meeting deadline, they must also be provided by the submitter.

FOR THOSE WISHING TO TESTIFY BEFORE THE ADVISORY PANEL

The Advisory Panel has revised its operating guidelines to incorporate a strict time management approach to its meetings. Rules for testimony before the Advisory Panel have been developed which are similar to those used by the Council. Members of the public wishing to testify before the AP <u>must</u> sign up on the list for each topic listed on the agenda. Sign-up sheets are provided in a special notebook located at the back of the room. The deadline for registering to testify is when the agenda topic comes before the AP. The time available for individual and group testimony will be based on the number registered and determined by the AP Chairman. The AP may not take public testimony on items for which they will not be making recommendations to the Council.

FOR THOSE WISHING TO TESTIFY BEFORE THE SCIENTIFIC AND STATISTICAL COMMITTEE

The usual practice is for the SSC to call for public comment immediately following the staff presentation on each agenda item. In addition, the SSC will designate a time, normally at the beginning of the afternoon session on the first day of the SSC meeting, when members of the public will have the opportunity to present testimony on any agenda item. The Committee will discourage testimony that does not directly address the technical issues of concern to the SSC, and presentations lasting more than ten minutes will require prior approval from the Chair.

COMMONLY USED ACRONYMS

ABC	Acceptable Biological Catch	MSFCM	A Magnuson-Stevens Fishery
AP	Advisory Panel		Conservation and Management Act
ADFG A	laska Dept. of Fish and Game	MMPA	Marine Mammal Protection Act
BSAI	Bering Sea and Aleutian Islands	MRB	Maximum Retainable Bycatch
CDQ	Community Development Quota	MSY	Maximum Sustainable Yield
CRP	Comprehensive Rationalization Program	mt	Metric tons
CVOA	Catcher Vessel Operational Area	NMFS	National Marine Fisheries Service
	Environmental Assessment/Regulatory	NOAA	National Oceanic & Atmospheric Adm.
	Impact Review	NPFMC	North Pacific Fishery Management
EEZ	Exclusive Economic Zone		Council
EFH	Essential Fish Habitat	OY	Optimum Yield
FMP	Fishery Management Plan	POP	Pacific ocean perch
GHL	Guideline Harvest Level	PSC	Prohibited Species Catch
GOA	Gulf of Alaska	SAFE	Stock Assessment and Fishery Evaluation
HAPC	Habitat Areas of Particular Concern		Document
IBQ	Individual Bycatch Quota	SSC	Scientific and Statistical Committee
IFQ	Individual Fishing Quota	TAC	Total Allowable Catch
IPHC	International Pacific Halibut Commission	VBA	Vessel Bycatch Accounting
IRFA	Initial Regulatory Flexibility Analysis	VIP	Vessel Incentive Program
IRIU	Improved Retention/Improved Utilization		3
TOD 4 CT	w 1.0 s		

Initial Total Allowable Catch

Local Area Management Plan

License Limitation Program

ITAC

LLP

LAMP

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Estimated Hours

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A.	CAL	L MEETING TO ORDER	
	(a)	Approval of Agenda	•
	(b)	Approval of Minutes of Previous Meeting (Oct. 2000)	•
В.	REP	ORTS	
	B-1	Executive Director's Report	•
	B-2	State Fisheries Report by ADF&G	•
	B-3	NMFS Management Report & EFH Update	•
	B-4	Enforcement and Surveillance Reports	•
	B-5	Marine Research Funds	•
	B-6	Eider Critical Habitat-Final Rule report - USFWS	•
	B-7	IPHC Annual Meeting Report	(4 hours for
			A/B items)
C.	NEV	V OR CONTINUING BUSINESS	
			(0.1
	C-1	Halibut Charter Management	(8 hours)
		Initial review of analysis.	
	C-2	Gulf Ecosystem Research	(1 hour)
	C-2	Report from Prince William Sound Science Center.	(Thour)
		Report Holli I fince william sound science center.	
	C-3	Steller Sea Lion Measures	(10 hours)
		(a) Review SSC report on BiOp.	
		(b) Report on Kodiak adaptive management.	
		(c) Discuss independent review and provide direction.	
		(d) Discuss workplan for 2002 amendment package.	
		(e) Provide direction on Council's RPA Committee.	
		(f) Review analysis of VMS/monitoring alternative: initial review.	

C-4 American Fisheries Act (a) Review final co-op reports and BSAI salmon bycatch provisions: (6 hours) take action as appropriate. (b) Discuss alternatives for processing sideboards and provide direction. (c) Industry report on Pacific cod sideboards: Council direction. (d) Report to Congress: Discuss. C-5 GOA Rationalization (1 hour) Review committee report and discuss next steps. C-6 Crab Rationalization (1 hour) Receive committee report. C-7 CDO Administration (Discuss under D-3) (1 hour) Update. C-8 HAPC Stakeholder Process (1 hour) Report on stakeholder meetings. D. FISHERY MANAGEMENT D-1 Groundfish Management (4 hours) (a) Initial review of Pacific cod pot gear split (BSAI Amendment 68). (b) TAC-setting process: initial review of analysis. (c) Review discussion paper on vessel-by-vessel catch and bycatch

D-2 <u>Crab Management</u>

(1 hour)

Crab Plan Team report on opilio bycatch in trawl fisheries.

(d) Bycatch information for freezer longline fleet: Review.

D-3 Staff Tasking

(4 hours)

- (a) Review committees and provide direction as necessary
- (b) Review tasking and provide direction.

E. PUBLIC COMMENTS

F. CHAIRMAN'S REMARKS AND ADJOURNMENT

Total Agenda Hours: 41 hours

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Certified: Yay Bendyen
Date: 1/26/01

MINUTES Scientific Statistical Committee

December 4-7, 2000

The Scientific Statistical Committee met December 4-7, 2000 at the Hilton Hotel in Anchorage, Alaska. All members were present except Seth Macinko:

Richard Marasco, Chair

Jack Tagart, Vice Chair

Steve Berkeley

Keith Criddle

Doug Eggers

Steve Hare

Jeff Hartman

Sue Hills

Dan Kimura

Doug Larson

Terry Quinn

Al Tyler

C-4 HALIBUT CHARTER IFQ PROGRAM

Jane DiCosimo and Chuck Hamel introduced the issues under this agenda item. The SSC then received staff presentations on ADF&G sport fishing data collection procedures from Allen Bingham and Scott Meyer, and on the proposed community set-aside program from Nicole Kimball and Maria Tsu. There was no public testimony.

ADF&G Sport Fishing Data Collection Procedures

Council Staff member Jane DiCosimo provided an overview of the procedure for updating the halibut charter GHL based upon a new estimate of Statewide Harvest Survey (SWHS) catch, harvest, and effort. ADF&G Sportfish Division Chief Biometrician, Allen Bingham detailed the revisions and corrections made to initial SWHS estimates that were used in the Halibut Charter GHL EA/RIR. The presentation described (1) the approach taken to correct errors in the non-response bias correction algorithm, (2) changes in the data and corrections in coding errors, and (3) revisions of criteria for rejecting catch outliers.

The SSC concluded that the revisions, methods and corrections represent a reasonable approach for improving the SWHS estimates. Although errors exist in the 1993 to 1997, estimates it was not possible to apply the revisions to the 1993 through 1995 data because the original datasets for expanding the samples from these years can no longer be reproduced. The SSC suggests that some additional effort be made to develop appropriate revisions for the 1998 data because these observations were included in the determination of sport-commercial splits for the halibut charter GHL analysis.

Four Sportfish Division publications on sport halibut fishery statistics and current operational plans for creel census data collection in areas 2C and 3A, were presented to the SSC for review. Though it was not possible to conduct an in-depth review of these programs, the methodologies used appear sound and well-implemented.

Community Set-Aside Program

Much of the SSC discussion was about the intent of this program, and its likely prospects for success. It is critical that a clear problem statement be adopted to help guide the staff analysis of this issue. In addition, to the extent that particulars of the program (such as what percentage should be set aside, where it comes from, and qualification criteria for individuals, firms or other entities that would use the community IFQs) can be specified, it will be easier to evaluate its likely effects.

Charter fisheries have not developed in some Alaskan communities to date, apparently because of barriers relating to raising capital, obtaining boats and equipment, and securing clients. It is not clear why the granting of IFQ shares, alone, will help this occur. Since these other barriers to development will continue to exist after the community set asides are in place, they could well continue to prevent the desired charter fishery development.

Some other key features of the program that need further resolution are: mechanisms to ensure allocations are fully utilized (through rollbacks, leasing, or phase-ins); and whether ownership or just use rights are granted. These, in particular, will influence the magnitude and distribution of benefits from the program. One possibility that may preserve the Council's flexibility for design of a community set-aside while proceeding with the charter IFQ program is to reserve an initial allocation for communities that can be distributed at a later time.

It is also unclear what role is played by communities *per se* in the proposal. If allocations of IFQ were made to individuals in the communities, and those individuals were able to develop charter businesses, would this also satisfy the objectives of the Council? The SSC was unable to resolve this issue. But if so, it may suggest other ways to achieve the Council s goals than by allocations to communities.

In developing rationales for the program, it is essential to keep in mind that development of new charter businesses in the subject communities have not been precluded by current regulations. Thus, for example, increasing the geographic diversity of the charter experience is not a strong rationale for the community set-aside program because there is nothing preventing charter owners today from increasing that diversity if market conditions warrant. The fact that this may not have yet occurred suggests that forcing it to occur will come at some cost.

C-5 STELLER SEA LION BIOP

The SSC received a staff presentation on the Biological Opinion released last Friday from Sue Salveson, Doug DeMaster, and Mike Payne. Public testimony was provided by John Gauvin, Chris Blackburn, Donna Parker, Ed Richardson, Fred Christianson, Charles Bares, Dave Fraser, Thorne Smith, Jay Stinson, John Burns, Vidar Wespestad, Bob Storrs, Bob Ness, and Steve Hughes.

This BiOp finds that the NPFMC groundfish fisheries for pollock, cod, and Atka mackerel jeopardize the recovery of Steller sea lions by adversely modifying their habitat. It appears that NMFS will implement the RPAs to commence the groundfish fisheries for the year 2001. The Council will then be asked to amend its FMPs in a process that is expected to result in final action by June 2001.

The SSC could not provide a scientific review of the 600 page document in the available time. It appears that at least some concerns expressed by the SSC in the past have been addressed in this Biological Opinion. The SSC is willing to provide a thorough review by the February 2001 meeting, should the Council so desire.

The SSC remains concerned with the lack of scientific evidence to provide a clear link between the groundfish fisheries and the Steller sea lion population. Scientists are trained to first consider the probability of Type I error: incorrectly concluding an effect exists when in fact it does not. In the Steller sea lion (SSL) situation, a Type I error would occur if one concluded that fisheries affect SSL's when in fact they do not. In contrast, typical applications of the Endangered Species Act focus more on the probability of Type II error: concluding that no effect exists when in fact there really is one. In the Steller sea lion (SSL) situation, a Type II error would occur if one concluded that fisheries did not affect SSL's when in fact they really do.

Consideration of Type II error shifts the burden of proof so that an effect is not ruled out unless available scientific information refutes that the effect is present. This can be problematic, both scientifically and operationally, because the range of possible effects is practically infinite. In the Steller sea lion situation, focus on Type I error would lead toward a finding of no jeopardy and no need for RPA's because scientific information supporting a fisheries impact is not very strong. Whereas, focus on Type II error encourages a jeopardy finding because there are many ways that fisheries could affect SSL's and we cannot at this time prove that fisheries do not constrain Steller sea lion recovery. The current Biological Opinion appears to rely on a Type II error rationale, in which the focus is on potential interactions rather than proven interactions.

In general, the SSC notes that the federally managed commercial fishery may overlap with Steller sea lions but the extent of any competitive interaction is unresolved. Because the existence and strength of the interaction is unresolved, the effect of the proposed RPAs is also unknown. Limitations on fisheries may increase local short-term availability of prey for Steller sea lions but may not result in recovery of the Steller sea lion population. As the SSC has said many times in the past "There is no guarantee that implementation of the RPAs will result in recovery of the Steller sea lion population because we do not know the cause of the decline or what presently prevents recovery." The RPAs address changes in the fisheries, not because fisheries have been shown certainly to be the culprit, but because this Section 7 consultation is about fisheries. Thus, the SSC continues to call for analyses of the relative importance of commercial fisheries among <u>all</u> the factors that may be contributing to the lack of recovery.

The SSC has commented strongly in the past on the need for a monitoring program (Experimental Design, Adaptive Management) to assess the efficacy of management actions taken regarding Steller sea lions. We are pleased that the BiOp contains such a monitoring program as an integral part of the RPAs and view it as a welcome starting place. Given that this program has had only limited peer review and no Council involvement, the SSC suggests that this program be thoroughly reviewed and possibly modified by the Council family and other review bodies (e.g., National Academy of Sciences, the new Steller Sea Lion Recovery Team, ADF&G) before it is put in place. An open process with thorough review and consideration of alternative designs will give this monitoring program a better chance for success.

Because of the lags inherent in the dynamics of slow growing species such as sea lions, it may take a long treatment period to detect differences among treatments. In addition, because there are numerous environmental of ecological factors that likely influence foraging success, fecundity, morbidity, and mortality, it may be difficult to differentiate between changes induced by the treatments, and those that result from changes in uncontrolled factors. This is particularly true because the mechanisms and dynamic timing of these effects are largely unknown or unobservable. Thus the choice of covariates to be monitored is critical. Because the monitoring program should be fairly long term (six years or more), it is particularly important to be sure the best possible design is used to ensure acceptance of the results by affected parties.

The SSC strongly believes that NMFS should not alter the definition of ABCs contained in the FMPs, as it has proposed in its modified control rule. The Council ABCs are based on solid scientific information and theory and provide a scientifically defensible and credible baseline from which alternative strategies can be evaluated. Rather, the NMFS adjustment should be viewed as a TAC adjustment to account for uncertainty about Steller

sea lions and social concerns about the ecosystem. If and when a solid scientific basis can be found for adjusting catch levels to provide ecosystem protections, then the adjustment can be made at the ABC level. We will comment more on the proposed control rule after we have a chance to review the BiOp. Additional SSC concerns of the effect of the RPAs on the fish stock assessments can be found in the SSC's SAFE comments.

Given the level of scrutiny that this document is likely to encounter, the authors should make every effort to carefully document data sources, simulations, and statistical tests used as a basis for the findings and conclusions. The specific test statistics should be reported along with information on the number of observations, degrees of freedom, and confidence bounds associated with these tests.

The BiOp includes very little information about potential losses to fishers or fishery dependent communities. While such analyses may not be required in the BiOp, they are required for RIR/IRFA analyses that must be prepared to support emergency actions and plan amendments. The development of these cost/impact estimates should be undertaken as soon as possible and can be expected to necessitate a substantial investment of staff time and associated resources.

D-1 GENERAL SAFE CONCERNS

- 1. The unprecedented demands on the analysts related to SEIS and SSL issues resulted in less time and attention being devoted to stock assessments this year. It is ironic that with the increased scrutiny of the Council's management of groundfish, that one of the main responsibilities of the Council, the TAC-setting process, is being compromised to some extent. It is imperative that analysts serving the Council process be allowed to devote sufficient time and energy to produce quality stock assessments.
- 2. Similarly, the consideration of new ABC and OFL definitions has been put on hold pending the freeing up of analysts' time. The SSC hopes that this issue can proceed in the year 2001 to assure that the Council's TAC-setting is based on solid conservation standards.
- 3. The issue of adjusting ABC based on uncertainties in data and information came up this year in the BSAI Atka mackerel assessment. While the SSC did not approve of the approach used, the SSC encourages further exploration of this issue. As the methodology evolves to constructing ADMB age-structured assessment models for most assessments, it is possible that formal definitions of risk to the population and to the fishery can be developed that conceivably would lead to greater downward adjustments when uncertainty is higher.
- 4. The SSC heard that the 2001 survey in the Gulf of Alaska may only be a partial survey excluding the eastern Gulf. For some stock assessments, this could create major problems in using the survey information in the assessment, because of incomplete sampling of the population. The SSC hopes that a complete survey can be conducted.

D-1(a) BSAI GROUNDFISH SPECIFICATION

POLLOCK

Bering Sea

The new stock assessment shows a more optimistic state of the population than last year. Due to increases in this year's trawl and hydroacoustic surveys, results from the state-of-the art assessment model provide an estimate of total age 3+ abundance of 10.06 million mt in 2001, up from 7.70 million mt last year. This is due

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to the increased presence of the strong 1996 year-class, as well as increases in the revised estimates of abundance of prior year-classes from the new information. The strength of the 1996 year-class is evidenced in the EIT surveys, the bottom trawl surveys, the fishery, and the stock assessment models. Consequently, the age structure of the population no longer appears dominated by a single year-class, total biomass is close to the largest observed since 1978, and spawning biomass is well above the B_{msy} level.

The SSC agrees with the Plan Team that Model 1 is the best model of the 9 presented, because it is similar to the one accepted last year, fits the data well, and has reasonable population productivity parameters. Consequently, the SSC believes the EBS pollock stock belongs in Tier 1a of the information tiers (in which a probability density function for MSY is available). The long-term MSY from this model is 1,839,000 mt, which occurs at an equilibrium female spawning biomass of 1,779,000 mt. Estimates of female spawning biomass are 3,197,000 mt in year 2000 and 2,761,000 mt in year 2001, which are 80% and 55% higher than the MSY spawning biomass level, respectively. The maximum permissible ABC using the 2001 yield from the harmonic mean F_{msy} value is 2,125,000 mt. Given the excellent status of the population and the credible stock assessment, the SSC accepts the Model 1 harvest levels: ABC 1,842,000 mt (from the $F_{40\%}$ strategy) and OFL 3,536,000 mt (from the 2001 F_{msy} yield). [The analyst and Plan Team incorrectly used $F_{35\%}$ for OFL, rather than the prescribed F_{msy} .] Uncertainty associated with the spawner-recruit relationship was the reason for using F_{40} in developing the SSC's ABC recommendation.

While the status of the EBS population appears to be excellent, the following information may be useful to the AP and Council in determining the appropriate TAC.

- 1. The estimated biomass of the population has uncertainty, as shown in Figure 1.26.
- 2. The three most recent recruitment estimates (year-classes 1997 to 1999) appear to be lower than average (Figure 1.28), although few observations of these year-classes have been made.
- 3. Estimates of productivity parameters such as MSY vary greatly depending on the model used and the length of the recruitment series (Table 1.13). The assessment from Model 1 is based on estimates from 1978 on, whereas the entire series starts at 1963. Model 5 uses the longer series but results in productivity estimates that are not credible. Our minutes from December 1999 describe this problem in detail.
- 4. The estimated selectivity/availability curve shown in Figure 1.19 is quite steep, peaking and flattening at age 7 and above. Under the recommended ABC, the exploitation fraction at these ages is approximately 0.45, a fairly high fraction of the population. This level of exploitation is sustainable, as shown in the projection under Scenario 1 in Table 1.17, because the exploitation on younger ages is so much lower (0 to 0.30). Consequently, the overall exploitation fraction is only 18% and the spawning exploitation fraction is 22%. Nevertheless, these fractions are higher than those in previous years (see Figure 1.27, for example).
- 5. The projection of the population under Scenario 1 suggests that the population will drop below $B_{35\%}$ and then increase to $B_{40\%}$. Lower yields would result in population levels above $B_{35\%}$ or $B_{40\%}$ (Scenarios 3 and 4, for example).
- 6. Steller sea lion RPA measures may alter selectivity and harvesting patterns in unexpected ways. The assessment cannot account for these effects, until after they have been experienced.
- 7. The second half of the decade of the 1990's has shown clear oceanographic change in the Bering Sea, including strong cooling of the water mass at depth following one of the most intense El Nino's on record, a shift in primary production with coccolithophores instead of the more usual diatoms,

increased seabird mortality, reduction of year-class strength in several targeted groundfish species, and the development of heavy sea ice conditions. If these events persist in a regime shift toward a cooler period, there could be changes in pollock recruitment. Projections in the stock assessment document based on average recruitment during the warm period would then be inaccurate.

8. The largest yield taken over the period 1976 to 2000 was 1,455,000 mt in 1990 (Table 1.1); yields of the order of 1,800,000 mt occurred only twice in the history of harvesting pollock (in 1972 and 1973, see Table 1 in the Plan Team section).

For next year, the SSC requests that the analysts further explore the estimation of selectivity to determine if the high exploitation fraction at older ages is believable. These analyses could consist of an analysis with pooled ages and/or different blocking of selectivity years, alternative functional forms for the selectivity relationship, estimation of specification of higher natural mortality at older ages, and/or seasonal stratification of the harvest data (A season, B/C season).

Bogoslof

The SSC agrees with the Plan Team that Bogoslof more appropriately belongs in Tier 5, and agrees that maximum possible ABC under Tier 5 is 45,200 mt (biomass of 301,000 mt $\times M$).

The SSC has a long history of recommending lower ABC based on consideration of the entire Aleutian Basin stock. While the names of the reference points have changed over time, the SSC has been remarkably consistent in reducing fishing mortality based on the ratio of the current biomass to a target biomass of about 2 million mt.

The SSC recommends that the same procedure be used to reduce ABC this year. This results in an ABC of 8,470 mt, based on an F of 0.0282, a corresponding exploitation rate of 0.021, and a current biomass of 301,000 mt.

Aleutian Islands

The SSC concurs with the Plan Team recommendation for ABC = 23,800 mt based on Tier 5 harvest rate. OFL is 31,700 mt. This ABC is based on an estimated bottom trawl survey biomass of 106,000 mt, and a natural mortality rate M = 0.3. The recommended ABC is equal to the value used in 2000, but exceeds the recent catch for this year. In 1999 and 2000 pollock was regulated as bycatch only in the Aleutian Islands area. Historically, catch has been as great as 156,000 mt and for 20 years prior to 1999 averaged 48,354 mt.

PACIFIC COD

 $B_{40\%}$ = 389,00 mt (projected) $B_{SPAWNING}$ = 369,000 mt (projected) $B_{35\%}$ = 340,000 mt (projected)

The SSC agrees with the Plan Team on its ABC estimate of 188,000 mt, down 5,000 mt from last year. The Pacific cod has been stable over the last years, with differences in stock estimates at the 'statistical noise' levels. Because the current stock size is estimated to be below $B_{40\%}$ and because there has been a long-term decline in the population (since 1988), the SSC agrees with the 12% reduction added to the usual $F_{40\%}$ catch level by the Plan Team as a pre-cautionary measure. The decline is due to a series of lower than average year-classes. The SSC recommends that a stock recruitment relationship be included in the next assessment and that the age composition of the adult spawning stock be assessed relative to recruitment levels, because other cod

stocks (in the Atlantic) have shown that the occurrence of strong year classes is dependent on the presence of a broad age distribution in the spawning stock.

YELLOWFIN SOLE

The SSC supports the Plan Team's recommendation for ABC (176,000 mt; $F_{40\%} = 0.11$, Tier 3a) and OFL (209,000 mt, $F_{35\%} = 0.13$). The present assessment is a straightforward update of last years assessment. The spawning biomass (742,000 mt) is above $B_{40\%}$ (502,000 mt). The biomass of this stock is declining despite low exploitation rates, due to low recruitment in the last decade.

GREENLAND TURBOT

The SSC supports the Plan Team's recommendation for ABC (8,4000 mt; $F_{ABC} = 0.065$, 25% of $F_{40\%}$, Tier 3, and OFL (31,000 mt, $F_{35\%} = .32$). No new assessment was conducted for this stock. The specifications were based on projections of spawning biomass for 2001 from the stock assessment model from last year's assessment incorporating new catch and survey information. The projected spawning biomass (136,000 mt) is above $B_{40\%}$ (81,200 mt). The biomass of this stock continues at a low level.

ARROWTOOTH FLOUNDER

The SSC supports the Plan Team's recommendation for ABC (117,000 mt; $F_{40\%} = 0.23$, Tier 3a and OFL (141,500 mt, $F_{35\%} = 0.28$). The present assessment is a straightforward update of last years assessment. The spawning biomass (458,000 mt) is above $B_{40\%}$ (183,000 mt). The biomass of this stock is declining despite low exploitation rates, due to low recruitment in the last decade.

ROCK SOLE

The SSC supports the Plan Team's recommendation for ABC (228,000 mt; $F_{40\%} = 0.16$, Tier 3a and OFL (271,000 mt, $F_{35\%} = 0.19$). The present assessment is a straightforward update of last years assessment. The spawning biomass (676,000 mt) is above $B_{40\%}$ (285,000 mt). The biomass of this stock is declining despite low exploitation rates, due to low recruitment in the last decade.

The SSC noted that biomass projection under $F_{max,ABC}$ scenario fell below $B_{35\%}$ which suggests a computational error. Public testimony by John Gauvin (Groundfish Forum) noted unusual abundance of juvenile rock sole in the winter yellowfin sole fishery.

FLATHEAD SOLE

The SSC supports the Plan Team's recommendation for ABC (84,000 mt; $F_{40\%} = 0.30$, Tier 3a and OFL (102,000 mt, $F_{35\%} = 0.38$). The present assessment is significant change from last years assessment, including use of AD Model Builder as a modeling platform that incorporated a simpler selectivity function. The projected spawning biomass (268,000 mt) is above $B_{40\%}$ (134,000 mt).

The SSC notes that the new model is length based with the assumption that length at age is constant over time. This species is known to show variable length at age. The SSC agrees with the Team's recommendation that age data be collected every three years to validate the constant length at age assumption.

Public testimony by John Gauvin (Groundfish Forum) noted decreasing size of fish in the July fishery for this species.

OTHER FLATFISH COMPLEX

The SSC supports the Plan Team's recommendation for ABC (122,000 mt; $F_{40\%} = 0.29$, Tier 3a and OFL (147,000 mt, $F_{35\%} = 0.36$). Alaska plaice is the principal species in the complex, and the present assessment is a straightforward update of last years assessment. The projected spawning biomass (217,000 mt) is above $B_{40\%}$ (122,000 mt). The biomass of this stock is slowly declining despite low exploitation rates, and there has been no apparent strong recruitment recently.

General Comments – Bering Sea Flatfish. The SSC notes that it provided a number of comments relative to the Bering Sea flatfish assessment in the minutes of the December, 1999 SSC meeting.

ROCKFISH GENERAL COMMENTS

The SSC thanks the section authors for creating chapters for true Pacific ocean perch (Sebastes alutus) and Other Red rockfish (i.e., northern/sharpchin, and rougheye/shortraker). This has resulted in a document that is much easier to read.

Pacific Ocean Perch

Again, the SSC notes a lack of adequate survey data for the POP stock assessment in the EBS. The SSC asks again, that assessment authors consider the merit of combining the EBS and AI areas into a single stock assessment model until adequate survey data becomes available for the EBS portion of the stock.

The assessment authors have employed the maturity schedules from POP in the GOA, which appear to be more realistic than those previously used from the literature. The new values compare better with a recent maturity at length samples, fit the models better, and resulted in lower ABC recommendations for 2001. A new 2000 survey biomass estimates was only available for the AI. Both stocks appear slightly below their $B_{40\%}$ values which recommends Tier 3b with $F_{ABC} = 0.040$ ($F_{OFL} = 0.048$) in the EBS and $F_{ABC} = 0.059$ ($F_{OFL} = 0.069$) for the AI. The SSC concurs with the resulting ABC = 1,727 mt in the EBS, and ABC = 10,213 mt in the AI. Corresponding OFL = 2,043 mt and 11,842 mt in the EBS and AI, respectively.

Other Red Rockfish

The SSC supports the Plan Team's recommendation to aggregate by species across areas rather than by areas across species. However, if subsequent stock structure research indicates that the stocks in the Eastern Bering Sea and Aleutian Islands are genetically distinct, the SSC would recommend stock specific ABC's and OFL's levels be applied.

The SSC concurs with Plan Team recommendations based on Tier 5, $F_{ABC} = 0.75M$ and $F_{OFL} = M$:

2001 ABC's:

Northern Rockfish (BSAI)	6,760 mt
Rougheye Rockfish (BSAI)	262 mt
Shortraker Rockfish (BSAI)	766 mt

2001 OFL's:

Northern Rockfish (BSAI)	9,020 mt
Rougheye Rockfish (BSAI)	349 mt
Shortraker Rockfish (BSAI)	1.020 mt

Other Rockfish Complex

Mostly, other rockfish are made up of shortspine thornyheads. Adjustments in biomass estimates have resulted in minor changes to ABC and OFL. Under Tier 5, assuming M = 0.07, $F_{ABC} = 0.053$ and $F_{OFL} = 0.07$. The SSC concurs with the Plan Team's recommended ABC of 361 mt and OFL of 482 mt for the EBS, and ABC = 676 mt and OFL = 901 mt for the AI.

The SSC also shares the Plan Team's concern that some species in the Other Rockfish Complex may be locally overfished (e.g. dusky rockfish in the AI), and supports efforts to monitor this problem.

SABLEFISH

The BSAI components of the sablefish population is assessed jointly with the Gulf of Alaska components. See the GOA sablefish section for our discussion of the assessment and our overall recommendations. For BSAI, our specific recommendations follow the Team: ABC 1,560 mt (EBS), 2,500 mt (AI); OFL 1,910 mt (EBS), 3,070 mt (AI). The ABC is based on an adjusted $F_{40\%}$ strategy and the OFL is based on an adjusted $F_{35\%}$ strategy, with apportionments based on the combination of survey and fishery information.

ATKA MACKEREL

The SSC received a report on the Plan Team's discussions concerning Atka mackerel. Public comment was also provided by John Gauvin of Groundfish Forum and Ken Stump of American Ocean Campaigns/Green Peace.

As in the past several years, a Stock Synthesis model was used for the Atka mackerel assessment. At the December 1999 Council meeting, the SSC was informed of the intention to move the assessment to an AD Model Builder framework. Unfortunately, BiOp and SEIS demands on the lead analysts' time delayed this transition for at least one more year.

The projected spawning biomass for 2001, 159,400 mt, is slightly above the estimated $B_{40\%}$ of 154,000 mt. Biomass estimates for Atka mackerel, both that estimated by the assessment model and that observed by the triennial survey, indicate a steady downward trajectory since 1991. Under a Tier 3a designation, max F_{ABC} (= $F_{40\%}$) would yield a 2001 catch of 128,000 mt. Both the assessment authors and the Plan Team felt this catch level was clearly too high and sought a method to establish a lower ABC.

The prime source of discomfort in the Atka mackerel assessment is the large variance associated with the triennial biomass estimates. Confidence bounds on the estimates for some years range from zero to double the mean estimate. Under the rationale that the assessment does not reflect the level of variability in the data, an ad hoc procedure was developed to lower F_{ABC} . The procedure uses the average coefficient of variation (CV) of the last five surveys (36.4%) as the CV for a lognormal distribution with a median of unity. The 90% lower confidence bound of this distribution is 0.56 and this is the fraction to which max F_{ABC} was reduced, resulting in a recommended 2001 F_{ABC} of $F_{0.19}$ (= $F_{56\%}$). The 2001 ABC at this fishing mortality rate would be 58,700 mt. Following a split vote, the Plan Team agreed with the assessment authors' adjustment of the F_{ABC} rate.

The SSC agrees that the assessment does not convey the level of uncertainty in the estimated biomass, and that in such situations a more conservative harvest rate should be selected. Over the past year, the SSC has been working with NMFS scientists to develop more comprehensive definitions of overfishing that incorporate estimates of uncertainty. These efforts have also been delayed due to SEIS and BiOp commitments.

While the SSC recognizes the $F_{40\%}$ value to be clearly too high, we do not accept the ad hoc procedure used to produce the lower F_{ABC} . There has not been any systematic study of the performance of this method. There are questions as to the validity of using the average CV of the survey biomass estimates when the assessment uses several data sources that contribute uncertainty to the model biomass estimates. Instead of the average of the Cvs, the CV of the average biomass estimates could as easily be selected, similarly the 75% or 95% lower CI could as easily be chosen. Ideally, uncertainty in the biomass estimates would be conveyed by the assessment. One of the motivations for moving to AD Model Builder is that confidence intervals around the biomass estimate can be computed.

Concerns over uncertainty in the biomass estimate and the confirmed downward trajectory last year led the Plan Team and SSC to depart from the $F_{40\%}$ fishing rate and adopt the previous year's conservative rate of $F_{52\%}$. The SSC recommends that this rate be adopted again this year. This rate is slightly higher than the F_{ABC} of $F_{55\%}$, and results in an ABC of 69,300 mt. The OFL, 138,000 mt, was determined by applying $F_{35\%} = 0.42$.

A second item of contention for Atka mackerel concerns the apportionment of the TAC among areas 541, 542, and 543. The procedure developed in previous years is to use a weighted average of the past 4 surveys. In 2000, the fraction of the biomass found in the eastern most regime, Area 541, was extremely low this year, amounting to only 0.2 % of the total. In previous surveys, the amount in Area 541 has ranged from 10% to 5% of the total. Survey biologists examined several possible explanations for this discrepancy, principally involving survey operations, but found no operational differences. The SSC believes the time weighting scheme properly accounts for measurement error and recommends using this scheme. Based on an ABC of 69,300 mt the area split is as follows:

Area 543 - 27,900 mt

Area 542 - 33,600 mt

Area 541 - 7,800 mt

SQUID AND OTHER SPECIES

Squid and other species includes a group of otherwise unrelated species receiving little directed fishing effort in the BSAI regions of this time. The SSC concurs with Plan Team recommendations for squid ABC. ABC follows a Tier 6 strategy in which OFL (2,620 mt) is equal to mean catch from 1975-1995, ABC is set at 75% of OFL or 1,970 mt, and is unchanged from the 2000 level.

The SSC disagrees with the Plan Team recommendation for other species. As we did in 2000 the SSC recommends stepping up to an ABC based on Tier 5 specifications process, where maximum ABC is computed from the product of species specific natural mortality rates, individual species estimated biomass and a discount factor (0.75). The SSC step process is based on a 10 year stair step, begun in 1999. We are in the 3rd year of the step process. ABC is equal to 1999 ABC plus 3/10 time the difference between Max ABC₂₀₀₁ [51,800 mt] and ABC₉₉ [25,800 mt].

Total other species biomass was reported as 547,000 mt (p26, BSAI SAFE). Biomass for a subset of species (sculpins, skates, sharks, and octopus), was reported on Table 4.0, p542 of BSAI SAFE. Naturally mortality rates were set at 0.15 for sculpins; 0.10 for skates, 0.09 for sharks, 0.30 for octopus, and 0.20 for remaining species. Remaining species biomass was the difference between total reported biomass (547,000 mt) and the sum of species specific biomass for the combined EBS and AI (535,550 mt).

OFL is set as the sum of M*Biomass for all species, or 69,000 mt. Maximum permissible ABC is 51,800 mt. The SSC recommended other species ABC for 2001 is 33,600 mt ([51,800 - 25,800 mt] *.3 + 25,800).

D-1(b) GOA GROUNDFISH SPECIFICATIONS

POLLOCK

The GOA stock assessment is a straightforward update of last year's approach. The stock assessment continues to show a declining trend in the W/C/WYK population, and this year, it is estimated to be at an all-time low. On the other hand, estimated biomass in 2001 is 699,000 mt, compared with 588,000 mt estimated last year due to some changes in weight at age data and some minor changes in the assessment procedure (see page 49 of the stock assessment document). The authors and Plan Team recommend an ABC based on an adjusted F_{40%} rate of 0.28 from Tier 3b and average recruitment, resulting in a 2001 ABC of 100,770 mt, the maximum permissible value. The Tier 3b OFL is 117,750 mt. The SSC accepts the Plan Team recommendations. Last year, the SSC used a F_{45%} harvest rule that had the same rate of 0.28. In the interests of maintaining continuity in the recommended harvest rate, the SSC agrees with the change to F_{40%}. The SSC also accepts the apportionments of ABC by area and the ABC for EYK/SEO. The SSC notes that an alternate method of projecting recruitment using an inverse variance weighting scheme is being investigated and is interested in seeing more about this next year.

PACIFIC COD

 $B_{40\%} = 89,600$ mt (projected) $B_{SPAWNING} = 93,800$ mt (projected from adjusted F_{ABC}) $B_{35\%} = 78,400$ mt

The spawning biomass of GOA Pacific cod has continued to decline since 1987. The estimates decline over the last year is 15%. Because of this continued decline the SSC agrees with the precautionary, Bayesian reduction applied to $F_{40\%}$ to arrive at a reduced F_{ABC} . This puts the ABC at 67,800 mt, down by 11% of last year's level.

Pacific cod is of special concern for precautionary measures in the setting of the ABC. That is not only because of the declining spawning biomass, but also because of the possibility of unknown fishery sampling inadequacy. Sampling is being reviewed currently by the Observer Program. The SSC expressed it concern more completely in last year's minutes, especially from the October 1999 meeting. Sampling the Pacific fishery is difficult because of the complexity of its various fishing sectors.

FLATFISH

The SSC concurs with the Plan Team's recommendations for ABC and OFL levels for deepwater, rex sole, shallow water and flathead sole groups.

Species Group	<u>ABC</u>	$\underline{\mathbf{F}}_{ABC}$	<u>OFL</u>	F OFL	<u>Tier</u>
Deep water	5,300	0.075	6,980	0.10	5,6
Rex sole	9,440	0.15	12,300	0.20	5
Shallow water	37,860	0.15-0.17	45,320	0.209-0.25	4,5
Flathead sole	<u> 26,270</u>	0.15	34,210	0.20	5
TOTAL	78,870		-		

The regulatory area apportionments of ABC are based only on biomass distributions from the 1999 triennial survey, unlike most other species for which a weighted combination of the past several surveys is used. The SSC agrees with this apportionment method.

Species Group	Western	<u>Central</u>	<u>WYAK</u>	EYAK/SEO	Total
Deep water	280	2,710	1,240	1,070	5,300
Rex sole	1,230	5,660	1,540	1,010	9,440
Shallow water	19,510	16,400	790	1,160	37,860
Flathead sole	<u>8,490</u>	<u>15,720</u>	<u>1,440</u>	<u>620</u>	26,270
TOTAL	29,510	40,490	5,010	3,860	78,870

ARROWTOOTH

The SSC supports the Plan Team's recommendation for ABC (148,500 mt, $F_{40\%} = 0.134$, Tier 3a) and OFL (173,550 mt, $F_{35\%} = 0.159$). Exploitable biomass (1,586,530 mt) was greater that $B_{40\%}$ (450,097 mt).

SABLEFISH

In addition to a presentation by the assessment author, the SSC received public testimony from Arne Fuglvog of Petersburg Vessel Owners Association.

The SSC wishes to note the conciseness and clarity of the sablefish assessment and attempts to continually refine the model.

The sablefish assessment continues to be incrementally improved each year. This year, age data from the commercial fishery were added for the first time, and otoliths collected during the Japan-US cooperative longline surveys were aged. Previously, ages from the surveys had been estimated from a length age key.

The assessment model for sablefish continues to show the population at a low but stable level. Spawning biomass is estimated to be at 34% of unfished value, thus sablefish fall under Tier 3b. An adjusted $F_{40\%}$, fishing mortality rate of 0.10 results in an ABC of 16,900 mt. An adjusted $F_{35\%}$ rate of 0.12 gives an OFL of 20,700 mt. The SSC concurs with the Plan Team on both the ABC and OFL. The SSC also concurs with area apportionment of the ABC.

The GOA ABC apportionment is:

WGOA - 2,010 mt

CGOA - 5,410 mt

WY - 1,880 mt, and EY/SE - 3,540 mt

Two issues concerning the assessment were raised on which SSC opinion was sought.

- 1. Use of fishery catch rates in the assessment and areal splits of ABC. In 1999, the assessment incorporated longline fishery CPUE for the first time. Concerns were expressed over the potential biases arising from changing fishery catchability and non-random distribution of fishery effort. An analysis addressing these concerns was presented. While there are a few areas where survey and fishery CPUE trends are not in agreement, the overall results were encouraging. The SSC supports inclusion of the longline CPUE in both the assessment and area apportionments, and encourages continued investigation into inclusion of this and other potentially useful data (e.g. juvenile trawl surveys).
- 2. Utility and appropriateness of the decision analysis. For the second consecutive year, the assessment author presented a simple, but well-considered Bayesian decision analysis. This approach is an alternative method of establishing a safe harvest level. The analysis examines how variability in Q and M, two of the more ill-defined parameters, affect biomass trends under different levels of catch. With a goal of maintaining biomass at the same level after 5 years, the recommended ABC is 16,800 mt.

essentially the same value recommended under the adjusted $F_{40\%}$ ABC. The SSC encourages continued development of the decision theoretic approach as an alternative means of examining optimum harvest rates.

ROCKFISH GENERAL COMMENTS

The SSC recommends that the GOA break up the slope rockfish section into different species sections, as was done for red rockfish in the EBS/AI (i.e., POP, northern, other slope rockfish). This would be especially helpful in the GOA because both Pacific ocean perch and northern rockfish are being assessed using age-structured models. The SSC commends the stock assessment authors for bringing on the new AD model builder age-structured northern rockfish model and encourage them to pursue an age-structure model for dusky rockfish.

Pacific Ocean Perch

A stock synthesis model with q estimated (q=2.99) was used as last year, with updated catch data. Since the current biomass is less than B40%, the Tier 3b approach is used with $F_{ABC} = 0.067$, and $F_{OFL} = 0.078$. The SSC concurs with these results which imply ABC = 13,510 mt, with OFL = 15,960 mt. The SSC also concurs with the weighted survey method of apportioning ABC and OFL over the Western (9.5%), Central (71%), and Eastern (19.4%) portion of the GOA.

	<u>ABC</u>	<u>OFL</u>
Western	1,280 mt	1,520
Central	9,610 mt	11,350
Eastern	2,620 mt	3,090
WYAK (0.33)	870 mt	-

Shortraker/Rougheye

No new information is available for the stock assessment of the shortraker/rougheye species group. The SSC concurs with ABCs using Tier 4 for rougheye, Tier 5 for shortraker and the average of three previous surveys. As for the last assessment this results in shortraker(ABC) = 520 mt and rougheye(ABC) = 1,210 mt. OFL = 2,510 mt for the combined group. Again, a weighted exponential approach is used to split the ABCs into a Western (210 mt), Central (930 mt), and Eastern (590 mt) apportionment.

Northern Rockfish

The new northern rockfish assessment was challenging for the stock assessment authors due to the inconsistency between age, length and biomass data. The authors went with models that fit the age data well which is not a bad idea since northern rockfish are relatively easy to age. Interestingly q was estimated at 0.45, which is the opposite of POP where q is typically estimated to be greater than 1.0. This can be explained by noting northern inhabit rougher bottom. Female spawning biomass appears to be well above $B_{40\%}$, which implies a Tier 3a approach. This results in $F_{40\%} = 0.055$ and $F_{OFL} = 0.065$. The SSC concurs with the resulting ABC = 4,880 mt, and OFL=5,780 mt. Apportionment of ABC to the Western and Central Areas occurs as with POP resulting in Western (ABC) = 600 mt, Central (ABC) = 4,280 mt. Minor amounts of northern rockfish are combined with other slope rockfish in the Eastern area for management purposes.

Other Slope Rockfish

No new information is available for the stock assessment of the other slope rockfish species group. The SSC concurs with ABCs using Tier 4 for sharpchin, and Tier 5 for other species in this group. As for the last assessment this results in ABC=4,900t and OFL=6,390 mt. Again, a weighted exponential approach is used to split the ABCs into a Western (20 mt), Central (740 mt), and Eastern (4,140 mt) apportionment. The SSC also concurs with the recommended apportionment of Eastern ABC to WYAK (250 mt), and 3,890 mt for the rest of the Eastern area.

Pelagic Shelf Rockfish

This complex is mostly (98-99%) light dusky rockfish. With no new information ABC is set as in the previous assessment. For this species an F=M strategy is more conservative than an $F_{40\%}$ strategy, and this is what has been used. OFL is set using Tier 4, $F_{35\%}$. The SSC concurs with the resulting ABC = 5,980 mt and OFL = 9,040 mt). Area apportionment and portions for WYAK were carried out as for POP. The SSC concurs with the resulting apportionment of Western (550 mt), Central (4,080 mt), and Eastern (1,350 mt) with 580 mt of the Eastern portion allocated to WYAK.

Demersal Shelf Rockfish

Yelloweye average weight and standard error was updated using 1999 port sampling data. Under Tier 4, F_{ABC} was set at F = M = 0.02. The SSC concurs with the slightly reduced recommended ABC of 330 mt and the OFL = 410 mt.

However, the SSC remains concerned over the conservative nature of biomass estimates based on the sum of lower 90% confidence limits by area. The usual method would be to calculate the lower 90% confidence limit of the total biomass estimate and then distribute this over the different areas. The SSC would like to see the calculations performed both ways so that we can compare results.

Thornyhead Rockfish

With little new, the projection from the 1999 assessment was used to update ABC. The stock is well above its $B_{40\%}$ level. The SSC concurs with the Tier 3a recommended ABC = 2,310 mt and OFL = 2,770 mt. These are slightly below the values in the last assessment. The area specific apportionments are Western (420 mt), Central (970 mt), and Eastern (920 mt).

ATKA MACKEREL

The SSC supports the Plan Team's recommendations for ABC (600 mt, bycatch only) and OFL (6,200 mt, Tier 6).

OTHER SPECIES

ABC = 11,890 mt

Apportionments:

skates: 45% sharks: 20% sculpins: 30%

octopus and squid: 5%

The SSC supports the Plan Teams procedure for determining ABC based on Tier 5 procedures (survey biomass x 0.75 for each major taxa and summed over all taxa) and apportionment by proportionate share of ABC. The SSC encourages the development of a formal FMP that allows development of standard ABCs for the species in this group.

ECOSYSTEM CONSIDERATIONS

The SSC received a presentation on the Ecosystem chapter of the BSAI and GOA SAFE from Jim Ianelli (NMFS). The SSC is pleased to note the continuing evolution of this chapter and the utility it brings to understanding of fisheries and environmental influences on stocks. Furthermore, the SSC notes a change in expressed intent of this chapter to one of providing the Council with information about the effects of fishing from an ecosystems perspective in addition to the prior expressed intent to look at the effects of environmental change on fish stocks. The SSC believes that key tables and indices presented in the chapters should be placed on the web to provide convenient access to stock assessment and other scientists. These indices should be examined by the stock assessment scientists to determine their relevance and utility in the annual status of stocks review. We also recommend that the Plan Team evaluate and comment on the contents of this chapter and that their comments be made a routine part of the SAFE document.

ADVISORY PANEL MINUTES January 11, 2001 Doubletree Hotel - Seattle Airport Seattle, Washington

Advisory Panel members in attendance:

Alstrom, Ragnar Benson, Dave Boisseau, Dave Bruce, John (Chair) Burch, Al Cross, Craig Ellis, Ben Fields, Duncan Fraser, David Fuglvog, Arne Henderschedt, John Jones, Spike Madsen, Stephanie (Vice Chair) Norosz, Kris Ridgway, Michelle Steele, Jeff Ward, Robert

Steller Sea Lion-related Management Issues

(a) Specifications

The AP recommended Tables 13 - 15 be corrected to reflect the 60/40 Pacific cod split for catcher processors and AFA catcher vessel sideboards. *Motion passed 17-0*

(b) Measures Related to Second Half of 2001

The AP recommends that the Council advise NMFS against making a commitment to the long-term experimental design at its present stage of development. We encourage NMFS to refine the experimental design and fishery management measures with the input of the myriad review teams and objective application of SSL conservation and research goals. Further, the AP recommends that NMFS dedicate staff and funding to initiate smaller-scale experiments and research designed to maximize the opportunity to address key unknowns about sea lion biology, fishery impacts, and ecosystem interactions.

Motion passed 17-0

(d) Schedule/Proposal for Independent Scientific Review of BiOp

The AP, after receiving information regarding the timeline proposed by the NAS, recommends the Council conduct the scientific review in consultation with NAS in developing parameters of the review and identifying qualified individuals to ensure the review is completed in time for the Council's related tasks.

North Pacific Fishery Management Council

David Benton, Chairman Chris Oliver, Acting Executive Director

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Date:	

ADVISORY PANEL MINUTES December 4-8th 2000 Anchorage Hilton Hotel, Alaska

Advisory Panel members in attendance:

Alstrom, Ragnar

Benson, Dave

Boisseau, Dave

Bruce, John (Chair) Burch, Alvin

Cross, Craig

Falvey, Dan Fanning, Kris Fuglvog, Arne

Fraser, Dave

Jones, Spike

Jordan, Melody

Kandianis, Teressa

Madsen, Stephanie (Vice-Chair)

Nelson, Hazel

Ogden, Doug

Ridgway, Michelle

Steele, Jeff

Stephan, Jeff

Ward, Robert

Yeck, Lyle

C-1 Halibut Subsistence

The AP reaffirms its recommendation from the October meeting relative to the inclusion of Adak as a rural community eligible for halibut subsistence. Further, we ask the that the Council request clarification from the Board of Fisheries on the process used for determining a customary and traditional (C&T) finding.

Motion passed 19-0.

C-2 Crab Rationalization

The AP concurs with the process outlined by the Council in October to move forward with crab rationalization and appointment of the committee. The AP further requests that the appointments be made which represent a broad cross section of stakeholders and that they be made as soon as possible.

Motion passed 16-1-1.

C-4 Halibut Charter IFQ

The AP does not believe the corrected charter halibut catch data represent a significant enough change to warrant reconsideration of the GHL basis. We do, however, recommend the Council submit comments to NMFS recommending the use of the corrected numbers in the GHL package. The AP further recommends the halibut charter IFQ analysis be based only on the corrected data.

Motion passed 16-0.

The AP recommends the Council proceed with refinements of the halibut charter IFQ community set-aside program in the halibut charter IFQ analysis. We offer the following draft problem statement and other points of clarification:

- 1. The AP agrees with the Coalition concept of the set aside.
 - A. Individuals within communities would have limited, annual rights to use set aside quota.
 - B. Individuals within qualifying communities granted quota share could not lease or transfer quota share among communities or individuals as the ownership of the quota shares is retained by the government in trust for residents of eligible communities.
 - C. Any set aside quota not obligated by a certain date would "roll back" into the general commercial/charter quota pool for the upcoming season.
- 2. The AP recommends staff consideration of a phase-in of the set aside in addition to considering a preseason roll over as described in the Coalition proposal.
- 3. The AP generally agrees with the Coalition's stated purpose and need for a set aside.
 - A. An important purpose for the set aside is to "remove an economic barrier for residents of underdeveloped communities to participate in the halibut charter industry." Other goals include: provide for sustained participation in the charter industry; increase geographical diversity of charter operations; and reduce the potential for localized depletion.
 - B. Economic development is another important purpose for the set-aside.
- 4. The AP concurs with the Council's direction to have staff analyze a range of 1% 2.5% of the combined commercial/charter halibut TAC.
- 5. The AP believes that the list of eligible communities attached to the staff discussion paper be revised to exclude Akhiok and Saxman and to include Tyonek and Halibut Cove.
- 6. The AP requests an inclusion in the analysis of 2 options for a sunset: 1) 5 years and 2) 10 years.
- 7. Additionally, the AP requests the analysis evaluate the ability of alternative mechanisms, such as existing loan programs, to meet stated goals.

Draft problem statement

National Standard 8 of the Magnuson-Stevens Act directs that "conservation and management measures shall, consistent with the conservation requirements of this Act (including the prevention of over fishing and rebuilding of over fished stocks), take into account the importance of fishery resources to fishing communities in order to (a) provide for the sustained participation of such communities, and (b) to the extent practicable, minimize adverse economic impacts in such communities." Although the halibut IFQ program was developed under the Halibut Act which does

not require consistency with all of the Magnuson-Stevens' national standards, the Council believes Congress clearly intended that Council consider the impacts of all its management measures, including halibut management regulations, on fisheries-dependent communities. The current halibut and sablefish IFQ management structure, despite its many benefits, was not designed to provide transferrable quota shares to halibut charter fishermen to provide community development opportunities. As the Council considers modifying the current IFQ management structure to include quota share allocations to halibut charter fisheries, adverse economic impacts on fisheries-dependent coastal communities in the Gulf of Alaska may occur in communities when receiving insufficient initial quota share, and may further limit economic development opportunities in halibut charter businesses for residents of these communities.

Motion passed 13-6.

The AP further recommends the economic analysis include a discussion of the administrative costs of the program in contrast to an analysis of the breakeven point of a halibut charter business relative to the amount of allocation that may be made available.

Motion passed 19-0.

C-5 Steller Sea Lion Issues

The AP finds the following:

- that the National Marine Fisheries Service has prepared a biological opinion relating to Steller sea lions that could radically alter the management of virtually every fishery in the federal and state waters off Alaska, and in particular, the management of the federal Bering Sea/Aleutian Island and Gulf of Alaska groundfish fisheries;
- 2. that the NMFS biological opinion appears to violate many of the requirements of the Magnuson-Stevens Fishery Conservation and Management Act, including requirements that fishery management measures:
 - be based on the best scientific information available (section 301(a)(2));
 - be "reasonable calculated to promote conservation" if intended to allocate fishing privileges (section 301(a)(4));
 - "take into account the importance of fishery resources to fishing communities" (section 301(a)(8));
 - "minimize bycatch" (sections 301(a)(9) and 303(a)(11));
 - "promote the safety of life at sea" (section 301(a)(10)); and
 - "include a fishery impact statement...describ[ing] the likely effects...on...participants in the fisheries and fishing communities" (section 303(a)(9));
- 3. That the NMFS Biological Opinion may, in addition, violate the ESA and not protect Steller sea lions;
- 4. that the biological opinion was prepared for almost a year behind closed doors, without any input from the North Pacific Council, Advisory Panel, Science and Statistical Committee, tribal entities (section 10) or public;
- 5. that the biological opinion is approximately 500 pages long, and that the SSC, AP and Council have only had a few days to review it, at the same time that a full Council meeting is underway to set catch levels for the 2001 fisheries; and

6. that the biological opinion does not contain any mechanism to test the basic premise that the fisheries are even harming Steller sea lions or to test whether the substantial new fishery restrictions and measures contained in the BiOp RPAs will actually help the Steller sea lion.

The AP therefore recommends to the Council:

- (1) that the biological opinion and RPAs be subject to a full and proper review by the Science and Statistical Committee, the Advisory Panel and the Council, revised as appropriate, and be implemented as an amendment or amendments to BSAI and GOA fishery management plans through the administrative process set up under the Magnuson-Stevens Act to allow for a full scientific review and public comment;
- (2) that the Council recommend to the Secretary that the 2001 Bering Sea/Aleutian Island and Gulf of Alaska groundfish fisheries be managed in accordance with the regulations promulgated for the 2000 fisheries prior to the August court injunction and prior to this biological opinion, until such time as the new RPAs have been approved as FMP amendments; and
- (3) that the Council recommend total allowable catch levels for the 2001 BSAI and GOA groundfish fisheries consistent with TAC-setting principles used in 2000, as refined by the Council over the past two decades to conserve the fishery resources and protect the North Pacific marine ecosystem.

Motion passed 20-0.

C-6 American Fisheries Act

The AP received the presentations on the preliminary co-op performance reports and co-op agreements. The AP applauds the timely and detailed nature of these reports. These reports will not only allow the Council and public to monitor co-op performance but will also be invaluable in analyzing and assessment of other issues relating to the pollock fishery and sideboard fisheries. In essence, it appears these reports will become a valued data source to the Council and public.

D-1 (a) BSAI Groundfish Specifications for 2001

The AP recommends the Council approve the 2001 BSAI EA and final SAFE.

Motion passed 17-1.

The AP recommends the Council adopt the SSC's ABCs. Additionally, the AP recommends the Council adopt the 2001 ABCs as 2001 TACs except for: (see chart for recommended changes)

Pollock Yellow fin sole Arrowtooth Rocksole Flathead sole Other flatfish Other species

Relative to the recommended EBS pollock TAC, the AP recommends the Council take no action in 2001 to allow additional pollock processors.

Motion passed 19-0.

The AP also recommends the Council request NMFS manage the three species of rockfish on a bycatch only status and that additional information be brought back during the next cycle on bycatch occurrence and retention of these species during the 2001 fisheries.

Motion passed 16-3.

Minority Report

The undersigned minority members feel that placing BSAI red rockfish on bycatch status and requesting more information are inadequate steps to conserving northern rockfish, rougheye rockfish, and shortraker rockfish. The minority concurs with the Plan Teams comments: "For 2001, the Plan Team recommends that the (Other red rockfish) complex be broken out to separate species and managed accordingly..." This is a conservation issue, because when managed as a species complex, there is a risk that one stock would be fished disproportional to its abundance resulting in overfishing of that stock. (BSAI SAFE, p.22) In consideration of the ecology and life history of these species, and in light of the observation that best estimates indicate at least one of these species (northern rockfish) has been taken at twice its OFL in recent years, the minority feels that splitting these species out between BS and AI at the TAC level is warranted. In addition to the information this will provide, we urge NMFS to aggressively expand field research on the status of these species and refine conservation-based management measures accordingly.

Michelle Ridgway Bob Ward Melody Jordan

The AP recommends the Council adopt the BSAI trawl and non-trawl PSC allowances in the attached charts. *Motion passed 19-0*.

Further, the AP notes that it received testimony regarding the proposed August 1 opening date for the BSAI cod longline "C-D" season. We are convinced that the longliners have the technical ability to avoid seabirds. In the absence of improved seabird avoidance regulations based on current research, we recommend that the Council prepare a letter to the North Pacific Longline Association expressing its determination that all freezer-longliners should install double tori lines with tori line davits before August 1, 2001.

Motion passed without opposition.

D-1 (b) GOA Groundfish specifications for 2001

The AP recommends the Council approve the 2001 GOA EA and final SAFE.

Motion passed 17-1.

The AP recommends the Council adopt the SSCs ABCs. Additionally, the AP recommends the Council adopt the 2001 ABCs as 2001 TACs except for: (see chart for recommended changes)

Pacific cod

Shallow water flatfish Flathead sole

Arrowtooth flounder

Motion passed 19-0.

A motion recommending the Council support the suggestions by the Plan Team supported by the SSC, to set TACs by apportionments on page 14 of the SSC minutes for other species category failed 6-13.

Prohibited Species Catch Limits

The AP recommends the Council adopt the trawl and non-trawl PSCs and trawl apportionments as listed in the chart below:

TRA	WL GEAR	HOO	K AND LIN	\mathbf{E}
1 st quarter	600 mt (30%)	1 st trimester	250 mt (86	i%)
2 nd quarter	400 mt (20%)	2 nd trimester	15 mt (5°	%)
3 rd quarter	600 mt (30%)	3 rd trimester	25 mt (99	%)
4th quarter	400 mt (20%)	DSR	10 mt	
	2000mt		300mt	

TRAWL APPORTIONMENTS

	Shallow Water	Deep	water	
Quarter Co	mplex	Complex	Total	
1	500 mt	100 1	mt	600 mt
2	100 mt	300 1	mt	400 mt
3	200 mt	400 1	mt	600 mt
4	no apportionme	ent		400 mt

Motion passed 15-0

The AP commends the assessment authors for improvements to the sablefish assessment, particularly with regards to the use of fishery catch rates. We are, however, concerned with the level of interactions with the survey vessel. We recommend the Council request NMFS analyze satellite telemetry data to detect survey interactions.

Motion passed 15-0.

Halibut Discard Mortality Rates

The AP recommends the Council adopt the halibut discard mortality rates in tables 9 and 10.

Motion passed 18-0.

D-1 (c) BSAI pot gear sub allocations

The AP recommends the Council adopt the revised problem statement as follows and continue development of the analysis.

Problem Statement for Amendment 64

The catcher processors and catcher vessel pot fisheries for Pacific cod in the Bering Sea/Aleutian Islands are fully utilized. Competition for this resource has increased for a variety of reasons, including increased market value of cod products and a declining ABC/TAC.

Pot fishermen who have made significant long-term investments, have long catch histories, and are significantly dependent on the BSAI cod fisheries need protection from others who have little or limited history and wish to increase their participation in the fishery.

This requires prompt action to promote stability in the BSAI pot cod fishery until comprehensive rationalization is completed.

Motion passed 12-3-2.

D-2 Staff Tasking

The AP requests the Council direct NMFS to move forward with approval of Amendment 67, in addition to other actions approved but not yet implemented.

Motion passed 15-2.

Finally, the AP also unanimously approved the minutes from the October 2000 meeting.