Individual Fishing Quota Program Proposal to Allow IFQ halibut in Area 4A to be retained in IFQ sablefish pots

North Pacific Fishery Management Council Expanded Discussion Paper March 2013

Background

In December 2012 the Council considered a proposal submitted to the International Pacific Halibut Commission (IPHC) in 2008. The IPHC had requested a Council recommendation before it considered the proposal for adoption during its annual meeting. If adopted the IPHC would redefine legal gear for harvesting commercial halibut to include groundfish pots (single or longline, as allowed under Federal regulations) as legal gear in Area 4A (only). The result would allow the use of sablefish pots fished in the Bering Sea and Aleutian Islands management areas to retain only Area



4A halibut IFQs. If adopted by the IPHC, the proposal also would require Federal rulemaking¹.

During its review of a December 2012 discussion paper the Council requested information to address four additional topics (listed below) that it identified after its review of a discussion paper (Appendix 1). The Council identified this information as necessary before it would decide whether to recommend the action to the IPHC for the latter's adoption. The Council also noted that the issues addressed under this proposal would be informative on another IFQ proposal under Council consideration, i.e., to consider allowing the use of pot gear for sablefish in the Gulf of Alaska. The Council identified its interest in forming a gear committee to develop information to be included in a future discussion paper.

The four topics covered in this paper follow. Some additional management clarifications are provided.

- 1. Determine whether there is overlap in the spatial and/or temporal distribution of halibut longlining and sablefish pot fishing in the portion of Area 4A to which this proposal would apply.
- 2. Discuss the potential need for the following regulations:
 - a. Requiring the removal of sablefish pots from the fishing grounds upon completion of the harvest of the vessel's sablefish IFQ, and at the end of the season.
 - b. Requiring radar reflectors or other gear markers at both ends of a longline pot string.
 - c. Prohibiting "pot sharing" while pots are in the water.
 - d. Prohibiting the modification of sablefish pot tunnels.
- 3. Discuss the physical and market condition of halibut incidentally caught in sablefish pots.
- 4. Provide a discussion of the experiences and lessons learned by the industry and managers in Areas 2A and 2B from allowing the retention of halibut incidentally caught in sablefish pots, including retention caps.

¹ The Council may decide that a complementary regulatory amendment would not need to return through the Council process, but could proceed with Council staff working directly with the NMFS Regional Office.

In summary, the action before the Council is whether to send a letter to the IPHC to recommend the proposed action. As proposed, direct action by the Council likely would be required to amend Federal regulations to allow sablefish (i.e., groundfish) pots as legal gear for the retention of halibut, however the Council may wish to wait to initiate the required analyses until after the IPHC indicates an interest in this proposal. Action also may be required by the Alaska Board of Fisheries. The IPHC has taken no position on the proposal; to date it only has forwarded the proposal to the Council to gauge the latter's support for moving the proposal forward in the IPHC process. If adopted by the IPHC, the proposed action could be implemented in IPHC regulations to coincide with NMFS rulemaking at a later time, "... pursuant to regulations promulgated by NMFS and published in 50 CFR Part 300."

1. Determine whether there is overlap in the spatial and/or temporal distribution of halibut longlining and sablefish pot fishing in the portion of Area 4A to which this proposal would apply.

There are two management issues of interest related to the proposal to allow halibut to be retained in sablefish IFQ pots in a limited subarea of Area 4A: 1) the spatial and temporal overlap between the halibut IFQ longline fishery in Area 4A and the sablefish IFQ pot fishery and 2) the amount of halibut currently caught in sablefish IFQ pots and currently required to be discarded.

The following graph depicts the statistical areas where IFQ sablefish pots and IFQ halibut longlines were fished in the same week in Area 4A during 2009-2011. More detailed information (monthly plots) will be provided in a supplement.



Observer data for 2005-2011 showed that between 5 and 9 vessels were observed in the Area 4A fishing pots for sablefish. Between 1 and 7 halibut vessels in the Area 4 IFQ fishery were observed during the same period. Further examination of this data set was not pursued to demonstrate spatial/temporal overlap of the two fisheries.

The second issue of halibut discards in IFQ sablefish pots was addressed in maps presented in December 2012 (Appendix 1). There appear to be halibut discards throughout the IFQ season, with the highest occurrence in numbers of halibut in May (see table below). The spike in halibut corresponds to the map of sablefish pot and halibut longline fishery interactions in May (as shown in the December 2012 appendix; there is no corresponding spike in sablefish in May.

			Number of
Landing Date	Number of halibut	Pounds of sablefish	sablefish landings
Mar	322	281,844	53
Apr	1,626	517,396	194
May	8,609	568,199	269
Jun	1,135	348,169	161
Jul	1,110	388,681	165
Aug	74	292,879	116
Sep	527	861,411	335
Oct	196	540,956	274
Nov	71	174,151	64
Grand Total	13,670	3,973,686	1,631

Table 1 Frequency and timing of Area 4A halibut IFQ incidental catch in the BS and AI sablefish pot IFQ fishery in 2012. * Source: AKFIN data

- 2. Discuss the potential need for the following regulations:
 - a. Requiring the removal of sablefish pots from the fishing grounds upon completion of the harvest of the vessel's sablefish IFQ, and at the end of the season.
 - b. Requiring radar reflectors or other gear markers at both ends of a longline pot string.
 - c. Prohibiting "pot sharing" while pots are in the water.
 - d. Prohibiting the modification of sablefish pot tunnels.

General comments on regulatory compatibility

The above four potential enforcement actions raise a general issue related to the development of new or revised text that would be compatible (or require changes) among regulations of the IPHC, NMFS and State of Alaska (5 AAC 28.092 Limitations for halibut and 5 AAC 28.070 Groundfish possession and landing requirements). IPHC regulatory text could be adopted that implements that regulation contingent upon implementation of revised Federal regulations.

Note also that regulatory text that would affect pot fisheries (in State and Federal waters) are not specific to sablefish fisheries, but would apply to all groundfish fisheries. Sufficient rationale for amending regulations for all groundfish pot fisheries would need to be identified.

Specific comments on regulatory requirements under consideration

The following comments are provided in the context of whether the actions identified above (a - d) can be implemented and/or enforced by State and Federal agencies. Formal responses from the agencies can best be determined once the specific policy, as well as regulatory language, is identified. During its December 2012 review of the previous discussion paper, the Enforcement Committee provided the following comments to the Council (emphasis added).

"Jane DiCosimo presented an overview of a proposal to allow fishermen with commercial IFQs for both halibut and sablefish to retain halibut in IPHC Regulatory Area 4A that were caught in sablefish pots. The Committee spent some time discussing the importance of this proposal in relation to halibut resource in area 4A. It was generally viewed by the Committee, that the continued high halibut usage and the potential to reduce halibut discards makes this proposal relevant.

From the Committee's perspective, the intent of this proposal is not to permit increased directed fishing of halibut with pot gear, but rather better use of the halibut resource. The Committee noted that if the Council felt the need to reduce potential for increased directed effort toward halibut bycatch, a management tool such as a "MRA" could be considered. This would not present undue enforcement or compliance challenges. It was noted that area 4A is subject to both halibut clearance requirements and a sablefish directed fishing requirement to operate VMS, so there are monitoring and enforcement tools already in use in the fishery.

In summary, the Committee felt that proposal does not present any obvious compliance or enforcement issues. The Committee noted that the action could potentially be a vehicle to rectify conflicting "check-in" procedures required under halibut and sablefish requirements. The proposal indicates the need to redefine the area by latitude and longitude, but the Committee does not believe this is necessary, since the proposal would apply to those sablefish areas of the BSAI overlapped by area 4A. (Pot groundfish gear is not authorized in the portion of 4A contained within the WGOA). The Committee noted that authorizing retention of halibut IFQ in the sablefish fishery in IPHC Regulatory Area 4A necessitates the need for independent real-time positional reporting using VMS."

Specific regulatory approaches were suggested by the Council for further discussion on their need. A panel² of Federal fishery experts was convened to provide the following comments on legal, enforcement, and implementation aspects. Staff of the ADF&G also provided comments, as changes to State regulations may be necessary to implement some of the potential requirements under consideration in this discussion paper.

a. Requiring the removal of sablefish pots from the fishing grounds upon completion of the harvest of the vessel's sablefish IFQ, and at the end of the season.

Public testimony in December 2012 raised an issue relating to potential pre-emption of fishing grounds, and monopolizing an area so that trawl vessels or other gears cannot effectively fish in an area. Federal regulations do not allow "wet storage" of pot gear in federal waters. NMFS staff identified significant limitations on enforceability of pot storage in Federal waters, as NMFS does not have the capability of pulling pots (or any gear) at sea.

The State of Alaska allows wet storage of groundfish pots in state waters of the BSAI and South Alaska Peninsula areas, so long as pots are unbaited, bait containers removed, doors secured open, and stored in water less than 25 fathoms (5 AAC 28.632 and 5 AAC 28.571). Implementation in State waters of the

² Ron Antaya (OLE), Susan Auer (GCAK), Jane DICosimo (NPFMC), Heather Gilroy (IPHC), LT Tony Kenne (USCG), Michael Killary (OLE), Peggy Murphy (AKRO). Nicole Kimball and other ADF&G staff also contributed comments.

potential action to remove sablefish pots after fishing is completed would require changes to State regulations through the Alaska Board of Fisheries process.

b. Requiring radar reflectors or other gear markers at both ends of a longline pot string.

Public testimony in December 2012 raised consideration of a requirement to mark longline pot gear to assist in tracking of where the fishery was occurring and to determine whether vessels were fishing in more shallow waters than typical for targeting sablefish, although the IPHC plans to expand its Alaska's halibut survey stations by 30% as catches increase in deeper areas, particularly in Area 4, the Unalaska region, out through the Aleutians and on into the Bering Sea³.

NMFS and USCG staffs identified that such a requirement can be enforced if gear marking specifications are explicitly provided in Federal regulatory text. Specifications could include permit ID numbers and name of permit holder. "Radar Reflectors" would likely need to be defined in the regulations so that there is a clear standard for enforcement.

The State of Alaska does not require radar reflectors. All commercial longline or skate gear buoys, or kegs and buoys for groundfish pots, must be marked with the permanent ADF&G vessel license plate number of the vessel operating the gear (5 AAC 28.050(b). The State only allows the use of longlined sablefish pots in the Aleutian Islands District (consistent with the Federal fishery) and not in the Western District of the South Alaska Peninsula (5 AAC 28.640(c)). Implementation in State waters of requiring radar reflectors in the areas in which longlined pots are authorized for groundfish in State waters (i.e., the portion of the AI District that is within Area 4A) would necessitate changes to State regulations through the Alaska Board of Fisheries process.

c. Prohibiting "pot sharing" while pots are in the water.

Pot sharing addresses whether one boat may bring out pots for another vessel, or multiple vessels may share pots to be able to stake a claim and control a fishing area. This practice is legal in Federal waters as there is no prohibition on the practice in Federal regulations, however, any prohibition could not be enforced because NMFS cannot pull any gear at sea.

• The Magnuson-Stevens Fishery Conservation and Management Act prohibits actions:

"(K) to to [sic] steal or attempt to steal or to negligently and without authorization remove, damage, or tamper with—

- (i) fishing gear owned by another person, which is located in the exclusive economic zone [or special areas]*, or
- (ii) fish contained in such fishing gear;
- Federal regulations at Section 679.24 Gear limitations, state the following.
 - (1) All hook-and-line, longline pot, and pot-and-line marker buoys carried on board or used by any vessel regulated under this part shall be marked with the following:
 - (i) The vessel's name; and
 - (ii) The vessel's Federal fisheries permit number; or
 - (iii) The vessel's ADF&G vessel registration number.
 - (2) Markings shall be in characters at least 4 inches (10.16 cm) in height and 0.5 inch (1.27 cm) in width in a contrasting color visible above the water line and shall be maintained so the markings are clearly visible.

³ <u>http://www.iphc.int/publications/rara/2010/2010.201.DiscussionpaperonIPHCsetlinesurveyexpansion.pdf</u>

The State of Alaska prohibits pot sharing in State water groundfish fisheries, as State regulations specify that buoys for groundfish pots must be marked with the permanent ADF&G vessel license plate number of the vessel operating the gear (5 AAC 28.050(b).

d. Prohibiting the modification of sablefish pot tunnels.

A prohibition to modify sablefish pot tunnels is status quo, as groundfish pot dimensions are set in Federal regulation. The intention behind such a prohibition would be to allow sablefish IFQ fishermen to retain incidentally caught halibut in a limited area, with no changes to the gear presently allowed.

Public testimony in December 2012 suggested that any modifications to Federal regulations that define legal gear for directed sablefish IFQ fishing could become a *de facto* directed halibut pot fishery by potentially allowing pot configurations more favorable for harvesting halibut. The public expressed concern that defining pot gear as legal gear for directed halibut fishing could destabilize the status quo in the affected management areas; whereas if the intent is only to permit joint sablefish and halibut IFQ holders to retain incidentally caught halibut if the permit holder also held halibut IFQ for the area fished, the fishermen may realize economic benefits in not having to discard the fish, and the resource may realize conservation benefits due to reduced mortality associated with regulatory discards, as those fish would be counted towards the halibut catch limit.

State regulations define groundfish pots by the size of the pot tunnel eye perimeter at 5 AAC 28.050(e). Section 679.2 (15)

(15) Pot gear means a portable structure designed and constructed to capture and retain fish alive in the water. This gear type includes longline pot and pot-and-line gear. Each groundfish pot must comply with the following:

- (i) Biodegradable panel. Each pot used to fish for groundfish must be equipped with a biodegradable panel at least 18 inches (45.72 cm) in length that is parallel to, and within 6 inches (15.24 cm) of, the bottom of the pot, and that is sewn up with untreated cotton thread of no larger size than No. 30.
- (ii) Tunnel opening. Each pot used to fish for groundfish must be equipped with rigid tunnel openings that are no wider than 9 inches (22.86 cm) and no higher than 9 inches (22.86 cm), or soft tunnel openings with dimensions that are no wider than 9 inches (22.86 cm).

(16) Pot-and-line gear means a stationary, buoyed line with a single pot attached, or the taking of fish by means of such a device.

(10) Longline pot means a stationary, buoyed, and anchored line with two or more pots attached, or the taking of fish by means of such a device.

3. Discuss the physical and market condition of halibut incidentally caught in sablefish pots.

Marketability

Pacific halibut retained in Canadian sablefish pots are reported to be in generally good condition unless the soak time of pots was extended (see more detailed comments under "Condition"). No specific length of days after which halibut meat condition is considered to be less than "good" was identified. An examination of Figure 1 (below) confirmed that the length of pot soak times in BSAI and British Columbia, Canada pot fisheries were similar.

Condition

Public testimony in December 2012 suggested that there are negative impacts on the quality and marketability of halibut which undergo physical interactions with the pot gear. Williams and Wilderbuer (1995) reported that, at that time, there was no information on the mortality (i.e., survival) of pot-captured halibut following release, of the type which had been studied and reported by Hoag (1975) for trawls. Williams and Wilderbuer (1995) reported the following qualitative descriptive information regarding halibut caught in pots. Groundfish pots, primarily for Pacific cod, demonstrated the best condition factors and lowest discard mortality rates (DMR) among all gear types. Groundfish pots were typically fished individually, although recently more are fished on longline pot strings to avoid marine mammal depredation on longline gear. Pots are retrieved at least once every 24 hours in an attempt to maintain high quality of catch. Unless a halibut injures itself in the pot, the halibut should be in excellent condition upon release. Injuries can occur however from abrasion when the halibut comes in contact with certain crab species which are also taken incidentally, and from friction against the mesh of the pot. Also pot soak times greater than 24 hours can worsen condition thereby increasing the DMR.

The triennial IPHC halibut discard mortality rate (DMR) report provides a more recent summary of the condition of halibut caught by the three primary gear types. The most recent report was prepared in 2012 on data through 2011 and attached to the Groundfish SAFE Reports ; the report contains IPHC staff recommendations for DMRs for the 2013-2015 groundfish fisheries. The following information is summarized from that report and Williams and Wilderbuer (1995).

A number of factors contribute to condition at capture and subsequent release viability of halibut, which vary by gear type. With trawl-caught halibut, condition upon capture is related to the size of the catch, tow duration, and halibut size. For longline halibut bycatch, injuries are most frequently caused by improper release methods used by vessel crews. Another significant factor is the length of the soak time, which can exacerbate the mortality caused by hooking injuries and also increase the potential for amphipod predation. The condition of halibut caught in pots is affected by soak time and the presence of other animals in the pot, especially crabs, whose spiny carapace has been observed to scratch and abrade the skin of the captive halibut.

Gear (g)	m _{exc}	m _{poor}	m_{dead}	
Trawl	0.20	0.55	0.90	
Pot	0.00	1.00	1.00	
	m _{minor}	$m_{ m moderate}$	m _{severe}	m_{dead}
Longline	0.035	0.363	0.662	1.00

The mortality rate "m" varies among gear types and represents the aggregate effects of external and internal injuries to the fish and the presence of predation by amphipods or marine mammals. Estimated halibut mortality rates by gear and condition/injury from the 2012 DMR report follow.

Mean fishery DMRs and associated standard errors were estimated by assuming that each vessel acts as a separate sampling unit, so that a DMR was calculated for each individual vessel in a target fishery. The DMR for a target fishery was then estimated as the mean of vessel DMRs, where the vessel's proportion of the total number of bycaught halibut was used as a weighting factor.

The analyses on halibut DMRs conducted by IPHC have generally excluded IFQ fisheries, which would also include the sablefish pot fishery, so data from this fishery have not been reported nor analyzed. In contrast, the pot fishery for Pacific cod is not an IFQ fishery, so it has been part of the triennial analysis, as have all CDQ fisheries. As described in the most recent report, the number of observed vessels which participated in the CDQ sablefish fishery during 2009-2011 was quite low, i.e., either two or three

vessels observed annually. Very few halibut were examined by observers, but not many halibut were caught. The fishery DMR (0.50) was unchanged during 2009-2010, but dropped quite a bit (0.31) in 2011, more in line with the long term mean. As noted earlier, halibut mortality is positively correlated with longer pot soak time; long soaks increase the potential for amphipod predation of captured fish in the pot.

Use of sablefish pots in the sablefish fishery As described in the sablefish chapter in the GOA and BSAI Groundfish Stock Assessment and Fishery Evaluation (SAFE) reports, depredation by killer whales and sperm whales is common in the Alaska sablefish IFQ fishery. Killer whale depredation commonly occurs in the Bering Sea, Aleutian Islands, and Western Gulf of Alaska. Sperm whale depredation is common in the Central and Eastern Gulf of Alaska. Pot fishing for sablefish has increased in the Bering Sea and Aleutian Islands as a response to depredation of longline catches by killer whales. In 2000 the pot fishery accounted for less than ten percent of the fixed gear sablefish catch in the Bering Sea and Aleutian Islands. Since 2004, pot gear has accounted for over half of the Bering Sea fixed gear IFQ catch and up to 34% of the catch in the Aleutian Islands. Only a small amount of pot fishery data is available from observer and logbook data.

Sablefish pot fishing has increased dramatically in the Aleutian Islands and the Bering Sea since 1999. In 2007, pot gear accounted for 81% of the Bering Sea fixed gear IFQ catch and 56% of the catch in the Aleutians. Fishery catch and effort data for pot gear are available from observer data since 1999; however, these data cannot be presented due to low sample sizes (confidentiality). Pot fishery data are also available from logbooks since 2004; however, these data are also sparse. The number of observed sets and the number of pots fished increased dramatically in 2005 and remained high through 2007. The number of logbook pot sets has continued to increase in the Bering Sea and has stayed consistent in the Aleutian Islands. Over all years, the average number of pots used per set was 78.

The sablefish chapter also describes a pot fishery catch rate analysis. The authors reported few observed vessels during 1999-2004. From 2005-2007 the average catch of sablefish was 24 lbs/pot in the Aleutian Islands and the Bering Sea. Sablefish comprised most of the catch by weight (Bering Sea = 60%, Aleutian Islands = 69%) and the next most abundant fish by weight was arrowtooth flounder (Bering Sea = 13%, Aleutian Islands = 10%). Other species of fish (including halibut) and invertebrates contributed no more than 6% each to the total catch weight.

The following information reported by the SAFE Report authors for sablefish may be informative for application to halibut. Since depths are generally deep and mostly adults are caught there is less concerned that pots will catch juveniles in nursery areas. The average length of sablefish in the Aleutian Islands and in the Bering Sea was smaller for sablefish caught by pot gear (63.8 cm) than longline gear (66.0 cm), but the distributions indicate that both fisheries focus primarily on adults. Pot and longline gear is set at similar depths in the Aleutians and Bering Sea and sex ratio of the catch is 1:1 in both gears. We do not believe that the difference in lengths is significant enough to affect population recruitment and did not see any indication that undersized fish were being selected by pots.

A Canadian study (Scarsbrook et al. 1988) showed that control traps had only 5% sablefish mortality up to 10 days. In 2006 the authors examined the soak times of the observed pot sets and found that 90% of the pot sets were soaked for 7 days or fewer. The soak times for Alaska sablefish are plotted below (Figure 1).



Figure 1. Number of soak days for 1999-2005 BSAI pot fishery (Source: SAFE Report)

Sources

Hoag, S. H. 1975. Survival of halibut released after capture by trawls. IPHC, Sci. Rep. No. 57, 18 p. Scarsbrook, J. R., G. A. MacFarlane, and W. Shaw.1988. Effectiveness of experimental escape

mechanisms in sablefish traps. N. Am. J. Fish. Manag. 8:158–161.

- Williams, G, and T. Wilderbuer. 1995. Discard mortality rates of Pacific halibut bycatch: fishery differences and trends during 1990-1993. Proc. Int. Symp. N. Pac. Flatfish, AK Sea Grant, 95-04: 611-622.
 - 4. Provide a discussion of the experiences and lessons learned by the industry and managers in Areas 2A and 2B from allowing the retention of halibut incidentally caught in sablefish pots, including retention caps.⁴

Area 2A Retention of halibut incidentally caught in sablefish pots is not legal in Area 2A, nor has it been proposed for those waters.

Area 2B Fisheries and Oceans Canada (DFO) uses Integrated Fisheries Management Plans (IFMP s) to guide the conservation and sustainable use of marine resources. An IFMP was developed to manage the fishery of a particular species in a given region. IFMP s combine the best available science on a species with industry data on capacity and methods for harvesting that species. The IFMP identifies the main objectives and requirements for the groundfish fishery in waters off British Coumbia, as well as the management measures that will be used to achieve these objectives. It provides a common understanding of the basic "rules" for the sustainable management of the fisheries resource. It is not a legally binding instrument which can form the basis of a legal challenge. It can be modified at any time and does not limit the Minister's discretionary powers set out under statutes. The Minister can, for reasons of conservation or for any other valid reasons, modify any provision of the IFMP in accordance with the powers granted him/her. The groundfish IFMP is a living document that will be subjected to a review every two years for updates, with input from interested parties. Any changes required within a given fishing season will continue to be made as needed.

In 2006, the Commercial Groundfish Integration Program was introduced and a single IFMP for groundfish was produced rather than a separate IFMP for each groundfish fishery. The impetus for the

⁴ Related information from the Canadian Individual Vessel Quota Programs is incorporated under Issue 3.

move to the integration of the commercial groundfish fisheries was primarily to accont for all rockfish mortalities (retained and released at sea), as not much information on at-sea releases was available, as only partial at-sea monitoring was in place so there was unobserved fishing activity.. The move to integrated fisheries management was to account for all catches, retained and released and minimize regulatory discards by providing opportuntities to retain most of what is caught.

To retain halibut in sablefish; need sablefish license to fish for sablefish using certain gear types and allows other species of groundfish to be retained provided individual quota is acquired to cover nondirected catch, retained and released.

The total amount of halibut retained in traps may have increased, but poor information prior to integration leaves that unknown. Because the groundfish integration program was designed to address incidental harvest mortalities but did not want to increase directed fishing pressure on each species, , the industry developed a sector cap on the amount of halibut quota that could be harvested by other groundfish fleets (this is trues for all species; caps exist for sablefish caught by the other groundfish fleets, lingcod caught by the other groundfish fleets, dogfish caught by other groudfish fleets, ectc.,). The fleet wide cap on the amount of halibut quota that can enter the sablefish fishery is 192,726 lbs. There are also caps on the amount of halibut quota that a sablefish licence holder can hold. Since sablefish licences are vessel-based, this cap is per vessel. No vessel may hold quota holdings in excess of the annual ITQ cap (65,466 lbs of halibut). There are also trip limits for non-directed groundfish species that are caught while fishing sablefish (halibut landings may not exceed 15% of sablefish landed per trip).

There has not been a lot of halibut retained in traps, therefore no information is available on condition of trap caught halibut. A regulatory limit on thelength of time that trap gear can soak (4 days) likely limits the degradation of halibut flesh. Athough maintaining fleet autonomy was a goal of the groundfish integration program and secotr caps are in place, temporary adjustments to either cap can be agreed upon by the indstry to keepfleet fishing. While DFO can stop a fleet or vessel from fishing once the cap is exceeded, usually the industry meets to discuss the issue and responds with a temptoary adjustment to avoid a closure.

Fishery	Number of vessels
Lingcod	35-45
Dogfish	15-20
Sablefish	32 - 40
Rockfish (inside waters)	10-15
Rockfish (outside waters)	45-50
Halibut	135-160
Groundfish Trawl	60-65

Seven fisheries are involved in the IFMP. The following vessel counts are not unique to each fishery (i.e., some vessels that fish in more than one fishery) and may vary from year to year.

Lessons Learned The general philosophy for the integrated management program in Canada was described by industry as, "you break it, you buy it." This philosophy describes the practice of landing (nearly) all fish caught through informal transferring of quota shares among fishing sectors in-season to

cover incidental harvests (retained or released) in target fisheries. A flexible management structure under DFO allows the industry to control the flow of QS, within a regulatory framework of catch limits.

Lessons learned include the following.

- Resource conservation is paramount reason for creating a co-management system to allow retention of (nearly) all incidentally caught fish;
- Harvests of almost all regulated fish are accounted for using quota shares (other, less commonly caught / targeted species are managed through other tools such as trip limits etc.);
- All released halibut are accounted for using DMRs (regulatory discards of undersized halibut and voluntary releases of halibut), except for closed seasons;
- Marginal vessel operating costs of retaining halibut already caught in pot gear are associated with acquisition of quota shares;
- Fleet will change fishing behavior to maximize economic benefits to trips;
- Use of pot gear for targeting sablefish is lower than in the past as whale depredation is not as prevalent in British Columbia compared with the North Pacific;
- Slightly more halibut are being landed (in fewer) pots but are not being targeted;
- 100% at-sea and dockside monitoring is critical for total catch accounting and conservation benefits;
- Trial programs may lead to improvements in management; the Canadian integrated management system was a pilot program for 4 years; it was evaluated after year 2 and then made permanent.
- Industry involvement and agency flexibility together manage the Canadian integrated fisheries. Representatives meet monthly and amend the rules for retention each season. This prevents targeting of bycatch species while allowing all sectors to fish responsibly without being shut down.

5. Other

<u>Maximum retainable allowances</u> The Council is aware that incidental catch of halibut in sablefish pots likely would result in increased halibut retention, as fleet behavior adjusts to a new regulatory regime. Sablefish fishermen would no longer have a disincentive to move off of fishing grounds with higher halibut bycatch. The Council could create a regulatory disincentive such as a maximum retainable allowance (MRA) for this fishery in this area; however the MRA itself results in halibut regulatory discards (although fewer discards than without it) and then the complicated question of the level at which to set the MRA is created when so little information exists on the background level of incidental halibut bycatch in the sablefish pot fishery. Recall that some regulatory discards of undersized halibut would continue. Enforcement staff identified that MRAs are an enforceable management tool.

<u>Discard mortality rates</u> could be determined by the IPHC, recommended by the Council, and implemented by NMFS during the annual harvest specifications for IFQ and CDQ sablefish pot fisheries, under the status quo or proposed action.

Gear regulation	U32 halibut	O32 halibut
Status quo	Bycatch (0.32 DMR)	Bycatch (0.32 DMR)
Proposed Action	Bycatch (0.32 DMR)	Retained (1.00 DMR)

<u>Observer Program</u> The North Pacific Groundfish and Halibut Observer Program (Observer Program) has had a vital role in the management of North Pacific groundfish fisheries since the program started over 20 years ago. The information collected by observers provides scientific information for managing the

groundfish fisheries and minimizing bycatch. High caliber observer information is the cornerstone of Alaska groundfish fisheries management, however the quality and utility of the information was deficient because some boats were not being observed and the structure for deploying observers was flawed. Therefore, beginning in January 2013, the new Observer Program went into effect and makes important changes to how observers are deployed, how observer coverage is funded, and the vessels and processors that must have some or all of their operations observed. These changes will increase the statistical reliability of data collected by the program, address cost inequality among fishery participants, and expand observer coverage to previously unobserved fisheries.

All sectors of the groundfish fishery, including vessels less than 60 feet length overall (LOA) and the commercial halibut sector, will be included in the new Observer Program. Coverage levels will no longer be based on vessel length and processing volume; rather, NMFS will have the flexibility to decide when and where to deploy observers based on a scientifically defensible deployment plan. The new Observer Program places all vessels and processors in the groundfish and halibut fisheries off Alaska into one of two observer coverage categories: (1) a full coverage category, and (2) a partial coverage category. The partial observer coverage category includes:

- catcher vessel when fishing for halibut IFQ or CDQ
- catcher vessel when fishing for sablefish IFQ or fixed gear sablefish CDQ

Gear regulation	Status quo	Proposed Action
	(pot gear allowed for Area 4A halibut)	(pot gear allowed for Area 4A halibut)
Past Observer plan (< 2013)	Fishery monitored under	If halibut were retained, then the
	requirements of the plan	halibut fishery was not part of
		plan, no monitoring of that trip would have been required.
Current Observer plan (2013+)	Fishery monitored under	Fishery monitored under
	standard coverage	standard coverage requirements
	requirements of the plan	of the plan, since halibut is now part of plan.

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ATTACHMENT. REGULATIONS

Department of Fisheries and Oceans

Gear:

Hook and line and trap gear.

By regulation, no person shall fish for Sablefish with a trap, unless the trap has in a side wall a section that has been laced, sewn or otherwise secured by a single length of untreated natural fibre not larger than two mm in diameter and that, on deterioration or parting, produces in the side wall an opening with four sides, each of which is at least 20 cm in length.

No person shall fish for Sablefish with a trap unless the trap has in the side walls at least two escape openings each having an inside diameter of not less than 8.89 cm (3.5 inches) which creates an unrestricted exit out of the trap.

No person shall set a trap and leave the trap in the water for more than four consecutive days without lifting the trap from the water and removing all of the catch.

International Pacific Halibut Commission

- 19. Fishing Gear
- (1) No person shall fish for halibut using any gear other than hook and line gear, except that vessels licensed to catch sablefish in Area 2B using sablefish trap gear as defined in the Condition of Sablefish Licence can retain halibut caught as bycatch under regulations promulgated by the Canadian Department of Fisheries and Oceans.
- (2) No person shall possess halibut taken with any gear other than hook and line gear, except that vessels licensed to catch sablefish in Area 2B using sablefish trap gear as defined by the Condition of Sablefish Licence can retain halibut caught as bycatch under regulations promulgated by the Canadian Department of Fisheries and Oceans.
- (3) No person shall possess halibut while on board a vessel carrying any trawl nets or fishing pots capable of catching halibut, except that in Areas 2C, 3A, 3B, 4A, 4B, 4C, 4D, or 4E, halibut heads, skin, entrails, bones or fins for use as bait may be possessed on board a vessel carrying pots capable of catching halibut, provided that a receipt documenting purchase or transfer of these halibut parts is on board the vessel.
- (4) All setline or skate marker buoys carried on board or used by any United States vessel used for halibut fishing shall be marked with one of the following:
 - (a) the vessel's State license number; or
 - (b) the vessel's registration number.
- (5) The markings specified in paragraph (4) shall be in characters at least four inches in height and onehalf inch in width in a contrasting color visible above the water and shall be maintained in legible condition.
- (6) All setline or skate marker buoys carried on board or used by a Canadian vessel used for halibut fishing shall be:
 - (a) floating and visible on the surface of the water; and

(b) legibly marked with the identification plate number of the vessel engaged in commercial fishing from which that setline is being operated.

- (7) No person on board a vessel used to fish for any species of fish anywhere in Area 2A during the 72hour period immediately before the fishing period for the directed commercial fishery shall catch or possess halibut anywhere in those waters during that halibut fishing period unless, prior to the start of the halibut fishing period, the vessel has removed its gear from the water and has either:
 - (a) made a landing and completely offloaded its catch of other fish; or
 - (b) submitted to a hold inspection by an authorized officer.
- (8) No vessel used to fish for any species of fish anywhere in Area 2A during the 72-hour period immediately before the fishing period for the directed commercial fishery may be used to catch or possess halibut anywhere in those waters during that halibut fishing period unless, prior to the start of the halibut fishing period, the vessel has removed its gear from the water and has either:
 - (a) made a landing and completely offloaded its catch of other fish; or
 - (b) submitted to a hold inspection by an authorized officer.
- (9) No person on board a vessel from which setline gear was used to fish for any species of fish anywhere in Areas 2B, 2C, 3A, 3B, 4A, 4B, 4C, 4D, or 4E during the 72-hour period immediately before the opening of the halibut fishing season shall catch or possess halibut anywhere in those areas until the vessel has removed all of its setline gear from the water and has either:
 - (a) made a landing and completely offloaded its entire catch of other fish; or
 - (b) submitted to a hold inspection by an authorized officer.
- (10) No vessel from which setline gear was used to fish for any species of fish anywhere in Areas 2B, 2C, 3A, 3B, 4A, 4B, 4C, 4D, or 4E during the 72-hour period immediately before the opening of the halibut fishing season may be used to catch or possess halibut anywhere in those areas until the vessel has removed all of its setline gear from the water and has either:
 - (a) made a landing and completely offloaded its entire catch of other fish; or
 - (b) submitted to a hold inspection by an authorized officer.
- (11) Notwithstanding any other provision in these Regulations, a person may retain, possess and dispose of halibut taken with trawl gear only as authorized by Prohibited Species Donation regulations of NMFS.

National Marine Fisheries Service⁵

Section 679.2 Definitions

Authorized fishing gear (see also § 679.24 for gear limitations and Table 15 to this part for gear codes) means trawl gear, fixed gear, longline gear, pot gear, and nontrawl gear as follows:

(1) Bottom contact gear means nonpelagic trawl, dredge, dinglebar, pot, or hook-and-line gear.

⁵ These are the definitions in regulation that will likely need to be amended to allow the retention of Area 4A halibut in sablefish pots, if recommended by the NPFMC, IPHC and implemented by the Secretary of Commerce.

(2) *Dinglebar gear* means one or more lines retrieved and set with a troll gurdy or hand troll gurdy, with a terminally attached weight from which one or more leaders with one or more lures or baited hooks are pulled through the water while a vessel is making way.

(3) *Dredge* means a dredge-like device designed specifically for and capable of taking scallops by being towed along the ocean floor.

(4) Fixed gear means:

(i) For sablefish harvested from any GOA reporting area, all longline gear and, for purposes of determining initial IFQ allocation, all pot gear used to make a legal landing.

(ii) For sablefish harvested from any BSAI reporting area, all hook-and-line gear and all pot gear.

(iii) For halibut harvested from any IFQ regulatory area, all fishing gear comprised of lines with hooks attached, including one or more stationary, buoyed, and anchored lines with hooks attached.

IFQ halibut means any halibut that is harvested with setline or other hook and line gear while commercial fishing in any IFQ regulatory area defined in this section.

APPENDIX 1.

ATTACH DECEMBER 2012 DISCUSSION PAPER AS APPENDIX