

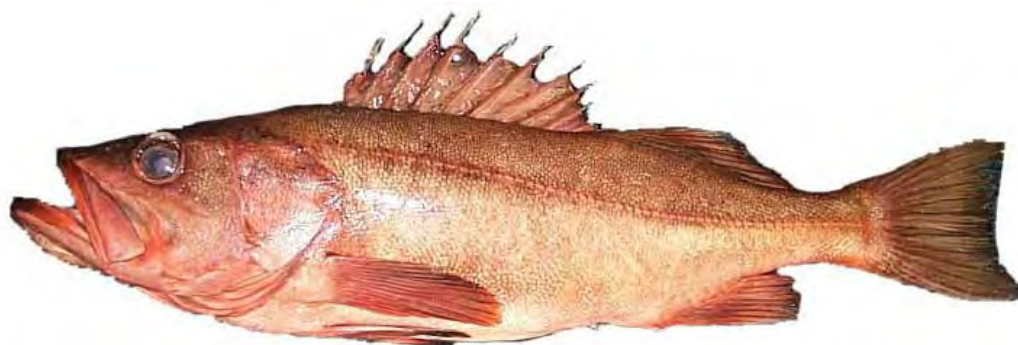
**PACIFIC REGION**

**INTEGRATED FISHERIES  
MANAGEMENT PLAN**

**GROUND FISH**

**EFFECTIVE FEBRUARY 21, 2014**

VERSION 1.0



**Bocaccio rockfish, *Sebastes paucispinis***



Fisheries and Oceans  
Canada

Pêches et Océans  
Canada

**Canada**

*This Harvest Plan is intended for general purposes only. Where there is a discrepancy between the Harvest Plan and the regulations, the regulations are the final authority. A description of Areas and Subareas referenced in this Harvest Plan can be found in the Pacific Fishery Management Area Regulations.*

## FOREWORD

The purpose of this Integrated Fisheries Management Plan (IFMP) is to identify the main objectives and requirements for the Groundfish fishery in the Pacific Region, as well as the management measures that will be used to achieve these objectives. This document also serves to communicate the basic information on the fishery and its management to Fisheries and Oceans Canada (DFO) staff, legislated co-management boards and other stakeholders. This IFMP provides a common understanding of the basic “rules” for the sustainable management of the fisheries resource.

This IFMP is not a legally binding instrument which can form the basis of a legal challenge. The IFMP can be modified at any time and does not fetter the Minister's discretionary powers set out in the *Fisheries Act*, *Species At Risk Act*, and *Oceans Act*. 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 pursuant to the *Fisheries Act*, *Species At Risk Act*, and *Oceans Act*.

Where DFO is responsible for implementing obligations under land claims agreements, the IFMP will be implemented in a manner consistent with these obligations. In the event that an IFMP is inconsistent with obligations under land claims agreements, the provisions of the land claims agreements will prevail to the extent of the inconsistency.

This 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.

IFMP documents are available from the DFO Pacific Region Internet site:  
<http://www.pac.dfo-mpo.gc.ca/fm-gp/ifmp-eng.html>.

## TABLE OF CONTENTS

1.	OVERVIEW OF THE FISHERY .....	5
1.1.	History.....	5
1.2.	Type of Fishery and Participants .....	5
1.3.	Location of Fishery .....	6
1.4.	Commercial Fishing Areas .....	6
1.5.	Governance .....	9
1.6.	Approval Process .....	11
2.	MANAGEMENT ISSUES.....	11
3.	RESOURCE MANAGEMENT GOAL .....	11
4.	LONG TERM OBJECTIVES .....	11
5.	SHORT TERM OBJECTIVES .....	12
6.	STOCK ASSESSMENT AND STATUS .....	12
6.1.	Biological Synopsis .....	12
6.2.	Aboriginal Traditional Knowledge/Traditional Ecological Knowledge.....	13
6.3.	Stock Assessment and Science Advice.....	13
6.4.	Precautionary Approach (PA).....	15
6.5.	Research.....	16
7.	SOCIAL, CULTURAL AND ECONOMIC IMPORTANCE .....	18
7.1.	Aboriginal Food, Social, and Ceremonial Fishery.....	18
7.2.	Recreational Fishery .....	20
7.3.	Commercial Fishery.....	23
8.	OTHER GROUND FISH MANAGEMENT ISSUES.....	28
8.1.	Depleted Species Concerns.....	28
8.2.	Oceans and Habitat Considerations .....	32
8.3.	Gear Impacts .....	37
8.4.	Gwaii Haanas National Marine Conservation Area.....	38
9.	ACCESS AND ALLOCATION .....	39
9.1.	Quotas and Allocations .....	39
9.2.	Outgoing Sector Caps .....	46
9.3.	Incoming Sector Caps .....	48
10.	COMMERCIAL MANAGEMENT MEASURES.....	50
10.1.	Commercial Sector Groups.....	50
10.2.	Individual Vessel Accountability.....	50
10.3.	Sector Caps .....	50
10.4.	Reallocations of Individual Quota .....	50
10.5.	Multiple Hail-outs.....	51
10.6.	At-Sea Monitoring .....	51
10.7.	In-Season Updates .....	51
11.	SHARED STEWARDSHIP ARRANGEMENTS .....	51
11.1.	Commercial Industry .....	51
11.2.	Fisheries and Oceans Canada.....	52
12.	COMPLIANCE PLAN .....	52
12.1.	Overview.....	52
12.2.	Enforcement Issues .....	53
12.3.	Current Priorities.....	53
12.4.	Fishery Patrol Vessels.....	53
12.5.	Air Surveillance .....	53

13. APPENDICES.....54  
14. GLOSSARY .....54

## **1. OVERVIEW OF THE FISHERY**

### **1.1. History**

Each year Fisheries and Oceans Canada provides opportunities to First Nations for food, social and ceremonial (FSC) purposes (or domestic purposes for First Nations with modern treaties), and the commercial and recreational fisheries to harvest groundfish. First Nations, recreational, and commercial fisheries on the West Coast have long harvested groundfish. Groundfish serve as a source of food, they provide jobs, income, and enjoyment for individuals, businesses, and coastal communities; and they play key roles in natural ecosystems.

### **1.2. Type of Fishery and Participants**

#### **1.2.1. First Nations**

In the 1990 Sparrow decision, the Supreme Court of Canada found that where an Aboriginal group has an Aboriginal right to fish for FSC purposes, it takes priority, after conservation, over other uses of the resource. Fisheries are authorized via a Communal Licence issued by the Department under the Aboriginal Communal Fishing Licences Regulations.

#### **1.2.2. Recreational**

A recreational fishery may occur where authorized by a valid Tidal Waters Sport Fishing licence, which is required for the recreational harvest of all species of fish. Approximately 300,000 Tidal Waters Sport Fishing licences are sold each year. Tidal Waters Sport Fishing Licences can be purchased online by using the DFO website: <http://www.pac.dfo-mpo.gc.ca/fm-gp/rec/licence-permis/index-eng.htm>.

#### **1.2.3. Commercial**

There are seven distinct commercial groundfish sector groups, Groundfish trawl, Halibut, Sablefish, Inside Rockfish, Outside Rockfish, Lingcod, and Dogfish fisheries that are managed separately according to the measures set out in this management plan. The management of these sector groups is integrated, with all groups subject to 100% at-sea monitoring and 100% dockside monitoring, individual vessel accountability for all catch (both retained and released), individual transferable quotas (ITQ), and reallocation of these quotas between vessels and fisheries to cover catch of non-directed species. There are approximately 300 active commercial groundfish vessels. Information on licenced vessels is available online at the DFO website: <http://www.pac.dfo-mpo.gc.ca/fm-gp/licence-permis/index-eng.htm>.

First Nations have communal access to commercial opportunities through communal commercial licenses acquired through the Allocation Transfer Program (ATP) and Pacific Integrated Commercial Fisheries Initiative (PICFI). These licenses are fished in a manner that is comparable to the general commercial fishery.

#### 1.2.4. Aquaculture

Fisheries and Oceans Canada continues to support the research and development of the aquaculture sector. The Department will provide the aquaculture industry with reasonable access, by scientific licence, to the wild groundfish resource to assist industry development (growth and diversification). Requests to access the wild resource will be contingent upon stakeholders providing detailed project proposals for review and approval by the Department.

Requests for access to the wild resource will be reviewed based on the provision of specified criteria by the proponent (see details below). Decisions will be provided in writing to the applicant. The Department may require observers on vessels conducting collection trips and dockside monitoring of all fish harvested for aquaculture purposes at the vessel's own expense.

Applications for broodstock capture should include:

- a) Proposed time and location(s) where the fish will be captured.
- b) Name, vessel registration number (VRN) and licence number of the vessel to be used.
- c) Description and location of the facility where the fish are to be held (including aquaculture permit number if a fish farm).
- d) Transplants permit application number.
- e) Detailed project description.
- f) Detailed reporting framework.

More information can be found at: <http://www.pac.dfo-mpo.gc.ca/aquaculture/index-eng.html>.

### 1.3. Location of Fishery

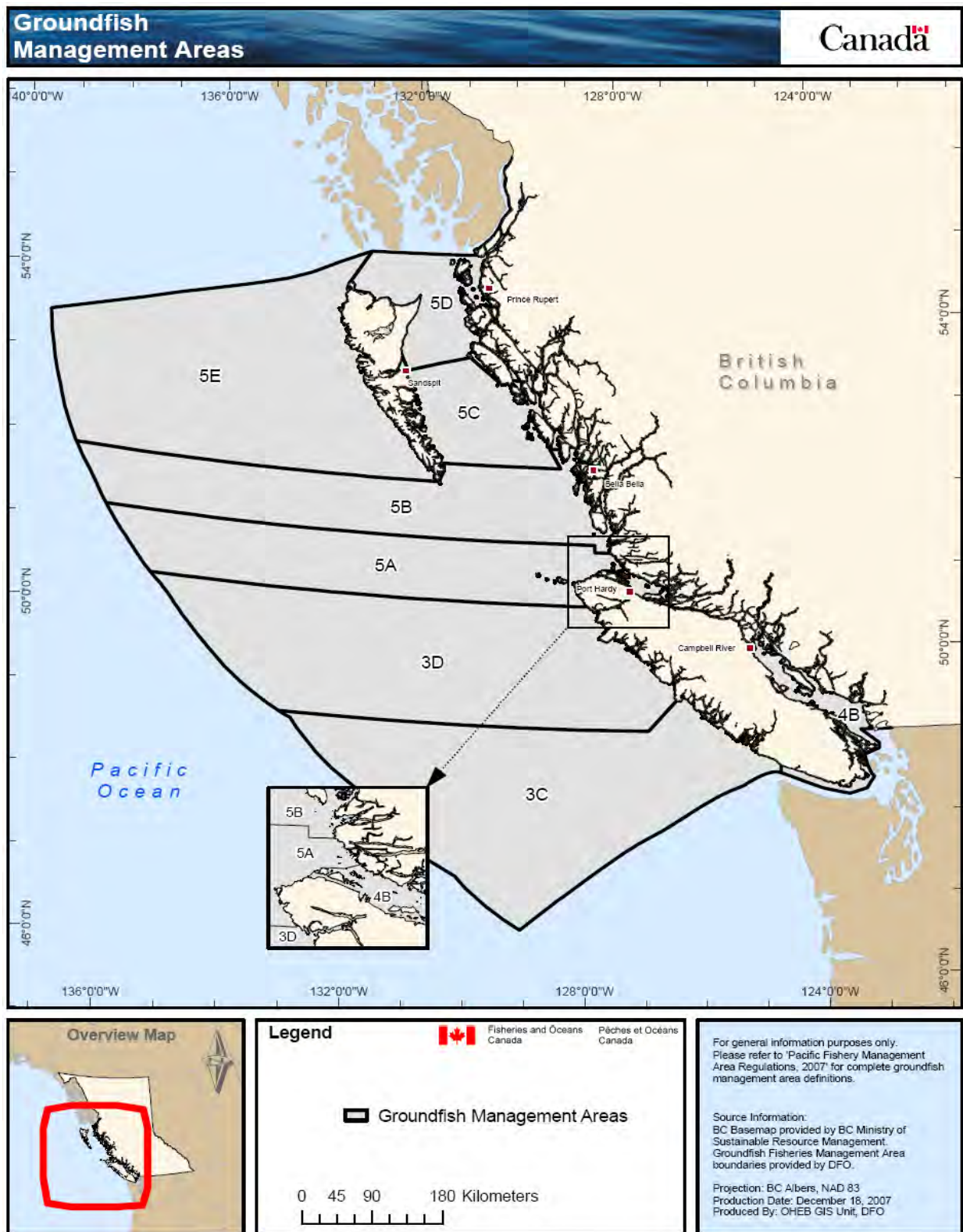
This Integrated Fisheries Management Plan (IFMP) addresses groundfish fisheries occurring in waters of the Pacific Ocean off the west coast of Canada.

### 1.4. Commercial Fishing Areas

Name	Area/Subarea
3C	Areas 21, 23, 24, 121, 123, and Subareas 124-1 to 124-3 and 125-6.
3D	Areas 25, 26, 126 and Subareas 27-2 to 27-11, 124-4, 125-1 to 125-5, 127-1 and 127-2.
4B	Areas 13 to 20, 28 and 29 and Subareas 12-1 to 12-13, 12-15 to 12-48.
5A	Areas 11, 111 and Subareas 12-14, 27-1, 127-3, 127-4 and 130-1.
5B	Areas 7 to 10, 108 to 110 and Subareas 102-3, 107-2, 107-3, 130-2 and that portion of 130-3 that lies south of the parallel passing through 51 degrees, 56 seconds north latitude)
5C	Areas 6, 106 and Subareas 2-1 to 2-19, 102-2 and 105-2 and 107-1.
5D	Areas 3 to 5, 103, 104 and Subareas 1-2 to 1-5 and 101-4 to 101-10, 102-1 and 105-1.
5E	Area 142 and Subareas 1-1 and 2-31 to 2-100 and 101-1 to 101-3 and that portion of Subarea 130-3 that lies north of the parallel passing through 51 degrees 56 seconds north latitude

Specific information on the management area boundary descriptions (latitudes and longitudes) can be found in the *Pacific Fishery Management Area Regulations, 2007* (SOR/2007-77). These regulations can be found at:  
<http://laws-lois.justice.gc.ca/eng/regulations/SOR-2007-77/index.html>.

1.4.1. Commercial Groundfish Management Area Map





## 1.5. Governance

- The *Fisheries Act* and the regulations made thereunder.
  - Areas and Subareas, as described in the *Pacific Fishery Management Area Regulations*, are referenced in describing Groundfish Management Areas.
  - Fishery (General) Regulations (i.e. Conditions of Licence) and the *Pacific Fishery Regulations, 1993* (i.e. open times).
  - The *British Columbia Sport Fishing Regulations* (1996).
  - The *Aboriginal Communal Fishing Licences Regulations* (1993).
- The *Oceans Act*.
- The *Species at Risk Act*.

DFO is consolidating its Fisheries Renewal efforts on current initiatives and emerging issues to support sustainable fisheries across Canada under its Fisheries Renewal initiative. The initiative will put in place new policies, tools and mechanisms to support a robust and diverse fisheries sector. Fisheries Renewal is being implemented through current, renewed and new projects that support DFO's vision of a credible, science-based, affordable and effective fisheries program, which contributes to the sustainable wealth of Canadians.

Current Fisheries Renewal projects include:

- the expansion of efforts to manage fisheries using multi-year science advice and multi-year management plans incorporating harvest levels and other primary management measures;
- the requirement for all fishers to cover business costs related to tags and logbooks where they are deemed an ongoing requirement (in line with the policy that those who benefit from the use of the resource be required to assist in paying for the management of the resource);
- the implementation of a suite of services to the fishing industry including online purchasing and renewal of commercial fishing licensing services, issuance of licence conditions, approval of designations and quota transfers; and,
- legislative and policy changes with regard to use of fish or fishing gear to fund joint project agreements (described further below).

On June 29, 2012, the *Jobs, Growth and Long-term Prosperity Act* (Bill C-38) received Royal Assent and became law. This Act contained provisions that amended the *Fisheries Act*. These provisions grant the Minister of Fisheries and Oceans the authority to allocate fish or fishing gear for the purpose of financing scientific and fisheries management activities that are described in a joint project agreement entered into with any person or body, or any federal or provincial minister, department, or agency. Allocations of fish for financing scientific and management activities are identified in the appropriate harvest plans appended to this plan.

In addition to the legislation and regulations summarized above, the Department's Sustainable Fisheries Framework contains policies for adopting an ecosystem based approach to fisheries management, including:

- A Fishery Decision-Making Framework Incorporating the Precautionary Approach;
- A Policy for Managing the Impact of Fishing on Sensitive Benthic Areas;
- A Policy on New Fisheries for Forage Species.

Along with existing economic and shared stewardship policies, these will help the Department meet objectives for long-term sustainability, economic prosperity, and improved governance. Further information can be found at the DFO website:

<http://www.dfo-mpo.gc.ca/fm-gp/peches-fisheries/fish-ren-peche/sff-cpd/overview-cadre-eng.htm>

Several advisory committees and subcommittees have been established to provide advice to the Department on management of groundfish fisheries. Terms of reference, membership and meeting minutes for the Halibut Advisory Board (HAB), Groundfish Trawl Advisory Committee (GTAC), Sablefish Advisory Committee (SAC), Groundfish Hook and Line Advisory Committee (GHLAC), the Commercial Industry Caucus (CIC), and the Groundfish Integrated Advisory Board (GIAB) can be found on the Internet at:

<http://www.pac.dfo-mpo.gc.ca/consultation/ground-fond/index-eng.html>. For a list of members please see Appendix 10.

DFO engages in a variety of consultation, engagement and collaborative harvest planning processes with First Nations. These exchanges and involvement may include bilateral consultations, advisory processes, management boards, technical groups and other roundtable forums. Consulting is an important part of good governance, sound policy development and decision-making. In addition to good governance objectives, Canada has statutory, contractual and common law obligations to consult with Aboriginal groups.

In addition, the Sport Fishing Advisory Board provides advice to the Department on matters relating to the recreational fishery. More information on this advisory board can be found on the Internet at: <http://www.pac.dfo-mpo.gc.ca/consultation/smon/sfab-ccps/index-eng.html>.

## **1.6. Approval Process**

The Regional Director General for the Pacific Region approves this plan.

## **2. MANAGEMENT ISSUES**

The Department's Groundfish Management Unit (GMU) has identified key issues facing the groundfish fisheries overall, as informed by consultations with interested parties. Groundfish management issues can be categorized under one of the following themes: science, catch monitoring, access and allocation, marine planning and governance. These key management issues informed the fisheries management objectives that follow in the subsequent sections. Since the establishment of these issues in the 2011 - 2013 IFMP, numerous subsequent discussions with the Groundfish Integrated Advisory Board (GIAB) and through other processes have reaffirmed these same key issues. Groundfish fisheries are defined as those fisheries that harvest for commercial, recreational and food, social and ceremonial purposes. The term "user groups" refer to all interests engaged in the harvest of groundfish resources.

## **3. RESOURCE MANAGEMENT GOAL**

The resource management goal for groundfish is to ensure the sustainable use of the groundfish resource. Each of the objectives described below, in some form, help to achieve this goal in the long term.

## **4. LONG TERM OBJECTIVES**

The management issues identified in section 2 formed the basis for the development of the following long term objectives. The long term objectives were developed for the 2011-2013 Groundfish IFMP and remain relevant for this IFMP. These longer term objectives are supported by short term objectives that are described in the next section. Objectives must be specific, measurable, attainable, relevant and time-bound (SMART). The long term objectives are as follows:

1. By 2017, identify and begin to acquire the necessary data required to provide science advice for all groundfish species identified in the DFO groundfish stock assessment strategic plan.
2. By 2017, pursue accountability for total groundfish mortality (retained and released catch) for all user groups supported by scientifically defensible (accurate and precise) catch monitoring programs.
3. By 2017, have an agreed upon process to aid in the development of allocation arrangements between user groups for groundfish species in the future.
4. By 2017, develop the infrastructure to collect and analyze data to determine economic viability and social impacts of the various groundfish fisheries.

## **5. SHORT TERM OBJECTIVES**

Short term objectives were developed for the 2011 – 2013 IFMP. Following a review of those objectives with input from GIAB, they have been updated; those that were complete have been removed from this list and those with work underway have been updated or maintained on the list below. Several new short-term objectives have been added that build upon the work done to date and reflect priorities for 2013-2015. This does not preclude additional short term objectives to be included in subsequent iterations of the IFMP. Current short-term objectives are as follows:

1. By the spring of 2014, work with groundfish users to identify and pursue funding mechanisms that support groundfish science and fisheries management (e.g., joint project agreements consistent with the emerging use-of-fish policy, user fee amendments).
2. By the outset of 2015, evaluate different approaches to assessing data limited species and assess the applicability of these approaches to the BC groundfish context.
3. By the dates below, develop and formalize catch monitoring standards that are consistent with DFO's strategic catch monitoring framework for each of the groundfish fisheries:
  - By the outset of the 2013 fishing season, implement new delivery models for existing catch monitoring standards for commercial groundfish fisheries;
  - By the outset of 2014, develop recreational fishing effort profiles that can inform catch monitoring standards for recreational fisheries;
  - By spring 2014, develop a pilot catch monitoring risk assessment for a FSC groundfish fishery that can inform catch monitoring standards for FSC fisheries.
4. By the summer of 2014, use the GIAB to develop the appropriate consultative approach that would support achieving the long term objective stated in 4.3 above.
5. By the outset of 2015, identify information sources that can be used to define and describe the cultural importance of the groundfish fisheries.
6. By the outset of 2015, identify and initiate implementation of improvements to catch monitoring and reporting of groundfish species in recreational and First Nations fisheries.

## **6. STOCK ASSESSMENT AND STATUS**

### **6.1. Biological Synopsis**

In addition to work directed at providing stock assessments, DFO staff conduct routine data collection and compilation and specialized research on the general biology of groundfish in support of stock assessment. The routine work includes:

- Collection and archiving of catch data from fisher logs, observer and electronic logs and unloading slips.
- Collection of biological specimen data from dockside, at-sea and research cruise sampling.
- Archiving of biological data collected from departmental and contract sources.

## **6.2. Aboriginal Traditional Knowledge/Traditional Ecological Knowledge**

Aboriginal Traditional Knowledge/Traditional Ecological Knowledge in the form of observations and comments provided by First Nations is considered in management decisions when provided.

## **6.3. Stock Assessment and Science Advice**

### **6.3.1. Groundfish Stock Assessment Program**

Stock assessment and research programs involving groundfish are conducted by the Department and through cooperative research programs carried out in conjunction with industry associations. Stock assessment advice has been provided for over 30 commercially exploited groundfish stocks. Science personnel, in association with DFO fishery managers and groundfish user group representatives, establish assessment priorities and timing schedules for assessments. These programs are intended to support ongoing evaluation of management measures. Opportunities for stakeholder involvement and co-operative ventures in research and assessment activities are pursued.

The 2011 – 2013 groundfish IFMP identified the prioritization and scheduling of groundfish stock assessments as an objective to be completed by 2013. DFO Science drafted a discussion paper titled “Prioritization and Scheduling of Groundfish Stock Assessments” outlining a process for this as well as a proposed assessment schedule for the 10-year period commencing 2012. The draft discussion paper was reviewed with the Groundfish Integrated Advisory Board in the spring of 2012 and was revised and completed shortly after.

The document, and the process it describes, is intended to inform work-planning for the Science Branch Groundfish Section and its research collaborators and interested parties. It focuses on that portion of the Section’s workload that relates to the production of single species stock assessments. A review of the prioritization and schedule is planned for every five years, although yearly adjustments will be made as needed. The document includes:

- a groundfish species frame of more than 200 species that Science suggests fall within the research mandate of the Groundfish Section (GFS) of the DFO Science Branch, Pacific Region, and for which a stock assessment might be requested;
- a recommended separation of the frame into higher priority (Type A) and lower priority (Type B) species;
- a screening of the Type B species to identify a short list which should receive more assessment work for the 2012-2021 period;
- a draft assessment schedule of the Type A and selected Type B species for the 2012-2021 period;
- a consultative process for conducting the prioritizing and scheduling.

Current and historical science advice, stock assessments and research program reports are available through the Canadian Science Advisory Secretariat (CSAS) (see section 6.3.2).

### 6.3.2. Canadian Science Advisory Secretariat

Science is the basis for sound decision making and DFO Science Sector provides information on the consequences of management and policy options, and the likelihood of achieving policy objectives under alternative management strategies and tactics. The Canadian Science Advisory Secretariat (CSAS) oversees the provision of all scientific advice required by operational client sectors within the Department (Fisheries and Aquaculture Management, Oceans and Habitat Management, and Policy). In the Pacific Region, science advisory processes are managed by the Centre for Science Advice Pacific (CSAP).

Scientific assessments and advice respecting the assessment and management of this fishery is peer reviewed annually in Regional Peer Review meetings. Government and non-government individuals with knowledge and technical expertise pertaining to each peer review meeting are invited to contribute to the peer review and development of advice. The schedule of CSAS meetings is available online at: <http://www.isdm-gdsi.gc.ca/csas-sccs/applications/events-evenements/index-eng.asp>. General information about the CSAS Policies, Procedures, Schedule and Publications can be found at: <http://www.dfo-mpo.gc.ca/csas-sccs/index-eng.htm>.

Science advice, proceedings and stock assessments/scientific evaluations resulting from of CSAS meetings are available online at: <http://www.meds-sdmm.dfo-mpo.gc.ca/csas-sccs/applications/Publications/index-eng.asp>. The following provides a brief description of the various documents published by CSAS.

- Science Advisory Reports

Science Advisory Reports (SAR) summarise the technical considerations and document the conclusions and advice developed during a CSAS science peer review process. SAR include traditional Stock Status Reports, Ecosystem Status Reports, and Habitat Status Reports, as well as advice pertaining to management strategies, frameworks and guidelines on the assessment or evaluation on specific issues, impacts of human activities on ecosystem components. Recovery assessments for species or populations are also included in this series.

- Research Documents

Research Documents are peer-reviewed, technical publications that document the scientific evidence and evaluation taken into consideration in the development of science conclusions and advice presented in Science Advisory Reports.

- Proceedings

Proceedings record the activities at CSAS peer review meetings or workshops. The Proceedings generally record decisions, recommendations, and major points of discussion at these meetings and workshops. Proceedings capture the diversity of opinion present at the meeting or workshop.

- Science Responses

The Science Responses document information and advice provided by DFO Science for issues handled via the Science Special Response Processes (SSRPs). SSRP is a

streamlined peer review process that deals with urgent and unforeseen requests for advice, for situations where the timelines for providing the advice do not allow for a full peer review process, in cases where there is a clear and valid framework to provide advice or for cases where DFO is not the final decision-making body.

#### **6.4. Precautionary Approach (PA)**

The Department has recently begun implementation of the Sustainable Fisheries Framework (SFF), which is a toolbox of existing and new policies for DFO and other interests to sustainably manage Canadian fisheries in order to conserve fish stocks and support prosperous fisheries (<http://www.dfo-mpo.gc.ca/fm-gp/peches-fisheries/fish-ren-peche/sff-cpd/overview-cadre-eng.htm>).

Fisheries worldwide are under increasing pressure, creating challenges for policy makers, resource managers, and interested parties to make informed decisions regarding the conservation, recovery, and wise management of these resources. DFO held consultations throughout Canada in 2007 and 2008 to develop strategies to ease ecosystem pressures and enhance the capacity of the resource to sustain growing industry needs. New conservation policies have been developed to implement the ecosystem and precautionary approaches to fisheries management. These new policies, incorporated into development of new Integrated Fisheries Management Plan (IFMP) templates, will join existing policies in a framework to promote sustainable fisheries.

The new fishery decision-making framework incorporating the precautionary approach policy (available at the weblink listed above) applies to key harvested fish stocks managed by DFO, including commercial, recreational, or food, social, and ceremonial fisheries.

The framework requires that a harvest strategy be incorporated into respective fisheries management plans to keep the removal rate moderate when the stock status is healthy, to promote rebuilding when stock status is low, and to ensure a low risk of serious or irreversible harm to the stock. It also requires a rebuilding plan when a stock reaches low levels.

In general, the precautionary approach in fisheries management is about being cautious when scientific knowledge is uncertain, and not using the absence of adequate scientific information as a reason to postpone or fail to take action to avoid serious harm to fish stocks or their ecosystem. This approach is widely accepted as an essential part of a sustainable fisheries management. Applying the precautionary approach to fisheries management decisions entails establishing a harvest strategy that:

- identifies three stock status zones – healthy, cautious, and critical – according to upper stock reference points and limit reference points;
- sets the removal rate at which fish may be harvested within each stock status zone; and
- adjusts the removal rate according to fish stock status variations (i.e., spawning stock biomass or another index/metric relevant to population productivity), based on pre-agreed decision rules.

All new groundfish stock assessments will be written in a manner consistent with the Department's Precautionary Approach.

## **6.5. Research**

Listed below are the Department groups and processes involved in groundfish stock assessment and research.

### **6.5.1. Science Branch**

A goal of the Fisheries and Oceans Canada Science Branch is to provide high quality knowledge, products and scientific advice on Canadian aquatic ecosystems and living resources, with a vision of safe, healthy, productive waters and aquatic ecosystems. Groundfish research and stock assessments are conducted in the Groundfish Section of the Science Branch.

### **6.5.2. Inshore Rockfish Research**

The inside longline research survey was conducted in Statistical Areas 12 through 16 in August and September 2012 onboard the CCGS Neocaligus. This survey is designed to cover the inside waters over two years, rotating between northern and southern portions. These surveys are conducted over hard bottom between 41 and 100 m in depth to determine the catch by species and to collect biological samples. These surveys were initiated in 2003 in Areas 12 and 13. With the completion of the survey in 2012, four monitoring cycles through the inside waters will be completed.

Visual monitoring of Rockfish Conservation Areas (RCAs) has been conducted since 2007 using DFO's underwater video camera mounted on a Phantom remotely operated vehicle (ROV). Research and development of survey methodology using this new tool has proceeded in the Strait of Georgia RCAs and in 2010 moved through more northern RCAs within Areas 12 and 13 and in 2011 along the West Coast of Vancouver Island. There are no plans for the continuation of the ROV monitoring program.

Joint research work with University of British Columbia graduate students continues with two projects on inshore rockfish. The assessment of RCAs using visual methods and research into bite times for various fish species on longline gear. These projects investigate RCA monitoring methodology and new longline relative abundance indices.

### **6.5.3. Outside Waters Rockfish Research**

#### **6.5.3.1. Synoptic Survey**

In 2006, a new research survey was planned with the research committee of the Pacific Halibut Management Association. This survey is part of an effort to index groundfish populations in all areas of the coast. The survey grid developed for hard bottom areas are matched alongside those developed for the coastwide trawl surveys. Data from both the longline and trawl surveys will provide coastwide abundance indices and ancillary



biological data for the more commonly caught species and provide general distributional data for all the others.

Employing a depth stratified random design, hard bottom areas coastwide will be surveyed with longline gear over a two year period, alternating between northern and southern portions of Canada's Pacific coast. A target of 200 fishing sets are selected in each year and three commercial fishing vessels are chartered to fish in one of three areas within the northern or southern portion of the coast each year. Between August 1 and September 15th, 2011 the southern portion of the coast was surveyed and during the same time period in 2012, the northern portion of the coast was surveyed.

#### 6.5.3.2 Standardized Stock Assessment Survey

In 2003, cooperative work with industry and the International Pacific Halibut Commission (IPHC) was initiated to collect data on catch other than halibut on the annual SSA in B.C. waters. A third technician has been employed in B.C. waters to collect hook by hook catch information as well as biologically sample rockfish species caught on the survey. Data from this survey provides an annual coastwide relative abundance index for rockfishes as well as distributional information for all other catch.

#### 6.5.4. Groundfish Trawl Multi-Species Surveys

Since 2003, a series of Groundfish Trawl Multi-species surveys have been conducted jointly between the Department and the groundfish industry through the Canadian Groundfish Research and Conservation Society. The purpose of the surveys is to gather fishery independent data to provide usable relative abundance indices for as many benthic and near benthic fish species as is reasonable and obtain supporting biological samples of size and age composition. This survey program is comprised of 4 area specific surveys. Current plans are to continue the surveys on a biennial rotation for each area conducting two surveys annually, one aboard a chartered commercial fishing vessel funded by the industry, and the other aboard a government research trawler.

#### 6.5.5 Sablefish Research and Assessment Survey Program

The Sablefish Research and Assessment Survey Program includes four primary components:

- A Randomized Tagging survey captures sablefish for tagging and release following an area and depth stratified randomized survey design. The catch rate data are used to derive an index of stock abundance and are a primary input to the sablefish management procedure. Tag-recoveries can be used for deriving estimates of gear selectivity, studying movement, and potentially for deriving a tagging-based index of abundance.
- An Inlets survey captures sablefish for tagging and release in standardized sets at four mainland inlet localities. As with the Randomized Tagging survey, tagged sablefish captured during the survey are measured, re-tagged and released.
- A Benthic Contact project is being conducted by researchers from the Canadian Sablefish Association, Simon Fraser University, and DFO Science. The project is

intended to provide quantitative estimates of the area contacted by longline trap gear using sensors that capture gear movement during a set and video cameras in high-pressure housings that capture imagery of the benthos. Prototypes of both types of equipment were tested in 2012, in anticipation of broader deployment in 2013.

- A Traditional Standardized survey was conducted from 1990 – 2010 but was put into hiatus and is unlikely to be resumed. The activity required standardized sets at nine offshore fishing localities and biological sampling. One set was made in each of five depth intervals in each locality. Catch rates from these sets were used as a stock index until it was determined that the area and depth randomized survey had superior stock indexing properties. Data from this activity are used in the management strategy evaluation for sablefish to help estimate historical biomass.

## **7. SOCIAL, CULTURAL AND ECONOMIC IMPORTANCE**

The purpose of this section is to provide a socio-economic overview of groundfish fisheries in British Columbia, using available information. This summary addresses groundfish in the context of the Aboriginal food, social, and ceremonial fishery, the recreational fishery, and the commercial fishery including the fish harvesting sector, the seafood processing sector, and the export market. The focus of this section is on the economic aspects of the fisheries. Where available, information on the social and cultural context of the fisheries has been included; these sections may be expanded in future years, as additional information is made available. The information covers 2005 to 2010; however, the entire period is not covered in all instances due to data limitations. As well, in the case of the commercial sector, the information starts in 2007 to coincide with the first full calendar year where the commercial groundfish integration program was in place. The overview provided by this profile is intended to help build a common understanding of the socio-economic dimensions of the fisheries rather than compare the fisheries. It can also support socio-economic analyses of proposed or implemented management changes.

### **7.1. Aboriginal Food, Social, and Ceremonial Fishery**

#### **7.1.1 Participation**

Generally, there are three categories of Aboriginal participation in fisheries – food, social, and ceremonial (FSC), commercial, and treaty.

##### **7.1.1.1 Participation in the Food, Social, and Ceremonial Fishery**

Section 35(1) of the Constitution Act, recognizes and affirms the existing Aboriginal and treaty rights of the Aboriginal peoples in Canada, however it does not specify the nature or content of the rights that are protected. In 1990, the Supreme Court of Canada issued a landmark ruling in the Sparrow decision. This decision found that the Musqueam First Nation has an Aboriginal right to fish for food, social and ceremonial purposes. The Supreme Court found that where an Aboriginal group has a right to fish for food, social

and ceremonial purposes, it takes priority, after conservation, over other uses of the resource. The Supreme Court also indicated the importance of consulting with Aboriginal groups when their fishing rights might be affected.

The Aboriginal Fisheries Strategy (AFS) was implemented in 1992 to address several objectives related to First Nations and their access to the resource. These included:

- To provide a framework for the management of fishing by Aboriginal groups for food, social and ceremonial purposes.
- To provide Aboriginal groups with an opportunity to participate in the management of fisheries, thereby improving conservation, management and enhancement of the resource.
- To contribute to the economic self-sufficiency of Aboriginal communities.
- To provide a foundation for the development of self-government agreements and treaties.
- To improve the fisheries management skills and capacity of Aboriginal groups.

AFS fisheries agreements may identify the amounts that may be fished for FSC purposes, terms and conditions that will be included in the communal fishing licence, and fisheries management arrangements. In Pacific Region, 14 First Nations have AFS agreements that specify groundfish. The Minister of Fisheries and Oceans may also issue a communal fishing licence to a group to fish for FSC purposes. There are currently 53 coastal First Nations that have communal FSC licences that include groundfish species.

#### 7.1.1.2 Participation in the Commercial Fishery

Aboriginal participation in the commercial fishery, either communally or individually, is described below in section 7.3.

#### 7.1.1.3 Participation in Modern Aboriginal Treaties

Fisheries chapters in modern First Nation treaties articulate a treaty fishing right for FSC purposes that is protected under Section 35 of the Constitution Act, 1982 (commercial access may be provided either through the general commercial fishery or a Harvest Agreement, which is negotiated at the same time as the treaty and is referenced in the treaty, but is not protected under the Constitution Act).

Three modern treaties (Nisga'a Final Agreement, Tsawwassen First Nation Final Agreement (TFA) and Maa-nulth First Nations Final Agreement (MNA) have been ratified in British Columbia.<sup>1</sup>

The Maa-nulth treaty, which includes five Nuu-cha-nulth First Nations (Ka:'yu:k't'h/Che:k'tles7eth, Huu-ay-aht, Toquaht, Uchucklesaht, Ucluelet) and came into effect in April 2011, provides for commercial groundfish in a Harvest Agreement.

---

<sup>1</sup> Details of the Nisga'a Final Agreement can be found at <http://www.aadnc-aandc.gc.ca/eng/1100100031292/1100100031293>. Details of the TFA and MNA agreements can be found on the B.C. Treaty Commission website at [www.bctreaty.net](http://www.bctreaty.net).

### 7.1.2 Social and Cultural Significance

There are approximately 204 First Nations in British Columbia, of which 187 qualify for AFS funding. Fisheries and the harvest and management of aquatic resources have particular importance to many Aboriginal communities. Many Aboriginal communities are located adjacent to key fishing sites, oceans and aquatic resources, and consider the management of these resources to be matters important to these communities. There are Aboriginal groups who are seeking greater access to economic opportunities from aquatic resources as a potential driver for economic development in their communities; more stability in food, social and ceremonial (FSC) fisheries; a greater role in the aquatic resource and oceans management decisions that affect them; and a greater role in stewardship, including stock assessment, oceans and habitat management, conservation and protection, and recovery strategy development and implementation.

## 7.2 Recreational Fishery

Recreational, or sport fishing, is a leisure activity that may also provide food for personal use. These activities provide a range of benefits to the individual participants (consumer surplus) as well as contribute directly and indirectly to the economy due to fishery related expenditures. Catch levels in the recreational groundfish fishery are managed using area specific openings and retention levels; there are no restrictions on the number of tidal water recreational licences.

### 7.2.1 Participation

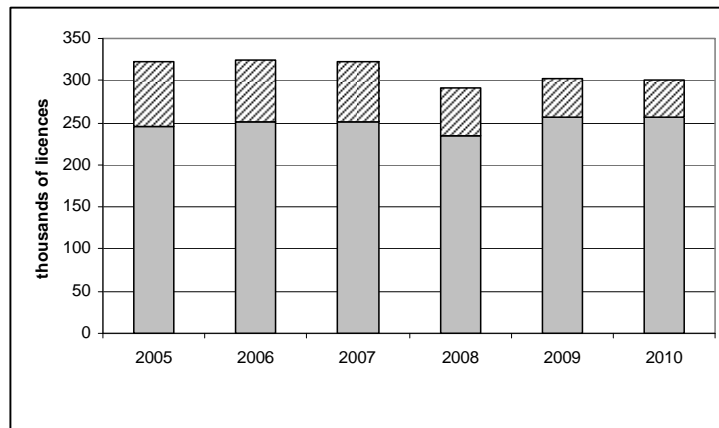
Tidal water recreational licences permit access to all marine species, including many groundfish, under the conditions described in the BC Sport Fishing Guide. The number of tidal water licences sold for access in BC decreased from around 337,000 in 2003, to settle around 300,000 since 2008 (Figure 1).<sup>2</sup> The majority of the decline has been due to a decrease in the sale of licences to non-Canadian residents. Based on the National Recreational Fishing Survey<sup>3</sup>, in 2010 approximately 42% of responding anglers identified Halibut as one of their top three preferred species, while 14% identified Lingcod and 7% identified rockfish as in their top three (DFO internal data). Fewer BC residents place Halibut in their top three (38%), than do anglers from outside BC (52%). Responding anglers reported spending 11.5% of their effort (total days fished) fishing for Halibut. This suggests that over 120,000 anglers may be targeting groundfish species each year.

---

<sup>2</sup> DFO. Recreational Licensing Statistics. <http://www.pac.dfo-mpo.gc.ca/fm-gp/rec/licence-permis/stat-eng.htm> (accessed October 31, 2012).

<sup>3</sup> DFO. National Recreational Fishing Survey in Canada. 2010 information online at: <http://www.dfo-mpo.gc.ca/stats/rec/can/2010/index-eng.htm> and 2005 information online at: <http://www.dfo-mpo.gc.ca/stats/rec/can/2005/index-eng.htm> (accessed November 1, 2012).

**Figure 1: BC tidal water recreational fishing licences sold to Canadians (solid) and non-residents (pattern) 2003-11 (thousands of licences)**



The number of businesses in BC that provide recreational fishing services directly to anglers (e.g. guides and charters) is unknown.

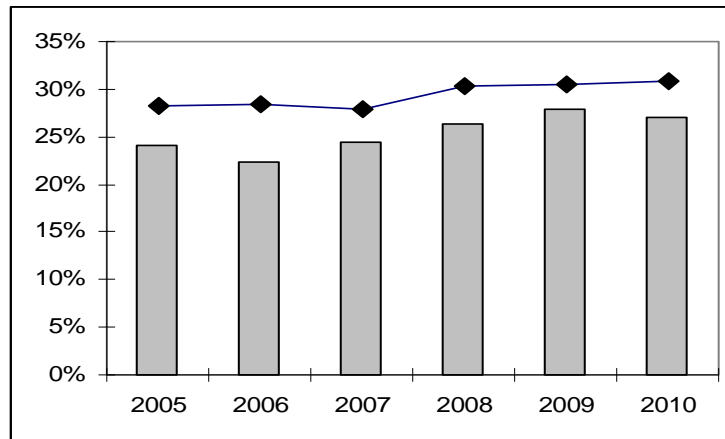
#### 7.2.2 Economic Contribution

Between 2005 and 2010, the real GDP and employment for the saltwater recreational fishing sector in BC grew by 9% and 5% respectively (Figure 2), accounting for 27% of GDP and 31% of employment attributed to the fisheries and aquaculture sectors in BC.<sup>4</sup> The portion of GDP and employment attributable to groundfish was not determined.

Determining the economic contribution of the recreational fishing sector is complicated, as some, but not all, of the GDP, employment and revenue in the industry is also part of the province's tourism sector. While many anglers live near to the coast of BC and can participate without travelling far from home, others must travel to participate in the tidal water recreational fishery. Tourists are those people who travel 80 kilometres or more from their usual place of residence in order to participate in the activity, consequently, there is significant overlap in the economic values for the recreational fishing sector and the tourism sector. Approximately 30% of the overall recreational fishing sector GDP is the result of activities not directly related to fishing, but rather includes non-angling activities undertaken by tourist anglers (e.g. visiting a museum).

<sup>4</sup> BC Stats. 2012. British Columbia's Fisheries and Aquaculture Sector (<http://www.bcstats.gov.bc.ca/StatisticsBySubject/BusinessIndustry/FisheriesAquacultureHuntingTrapping.aspx>)

**Figure 2: Share of BC fisheries and aquaculture sector GDP (bars) and employment (line) accounted for by the saltwater recreational fishing sector, 2005-2010**

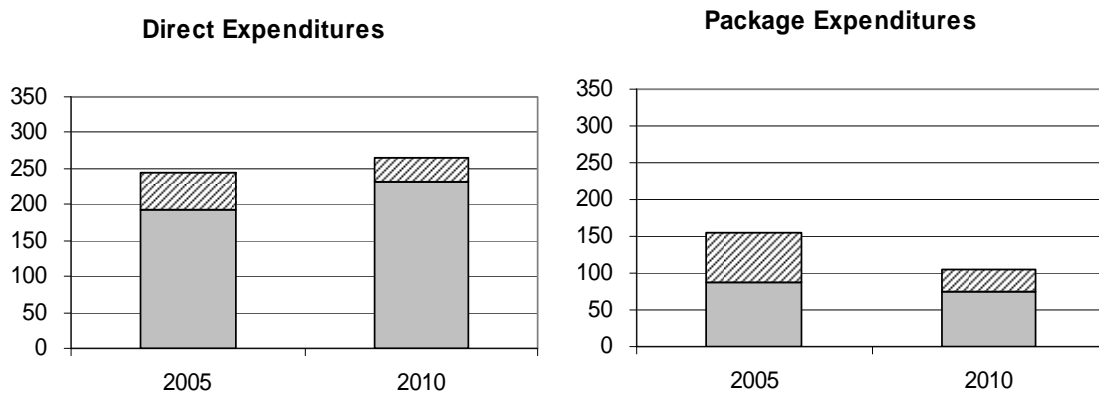


Source: BC Stats. 2012. British Columbia's Fisheries and Aquaculture Sector.

Direct fishing related expenditure estimates from the National Survey of Recreational Fishing are used in the calculation of GDP. The national survey, conducted every five years, provides an estimate of individual expenditures and investment for recreational fishing. While almost 75% of tidal water recreational licences in BC as purchased by BC residents, B.C.'s tidal waters fishing opportunities also bring Canadian and international tourists to the province. In 2010, of the 47,269 anglers surveyed who were not from BC, 47% of the international visitors reported they would not have come to BC had there not been tidal water fishing opportunities, while 32% of Canadian visitors would not have come.

Expenditures by tidal water anglers in BC, in constant 2010 dollars, increased from 2005 to 2010 (Figure 3). Direct expenditures increased by 8% between 2005 to 2010 period (8%), while expenditures on packages decreased by 33% during this period. Expenditures on fishing packages by BC resident anglers has increased considerably over the past decade; in real terms, it increased by over 13% between 2005 and 2010 and BC residents are now the primary consumers of fishing trip packages in the province.

**Figure 3: Changes in direct and package expenditures by Canadians (solid) and non-residents (pattern), 2005 and 2010 (2010 dollars)**



### 7.2.3 Social and Cultural Significance

There is a lack of data on the location of recreational fishing sector dependent employment, and thus it is not possible to comment on the social significance of the fishery. However, it is recognized that recreational fishing activities - in particular, providers of fishing packages - often occur in more remote locations, providing important direct and indirect employment opportunities in these communities. Analysis allocating package expenditures regionally, and to groundfish species, is forthcoming and may be included in future versions of this IFMP.

Additional information on the history and vision for recreational fisheries can be found in the document "Vision for Recreational Fisheries in BC" (<http://www.pac.dfo-mpo.gc.ca/fm-gp/rec/index-eng.htm>).

## 7.3 Commercial Fishery

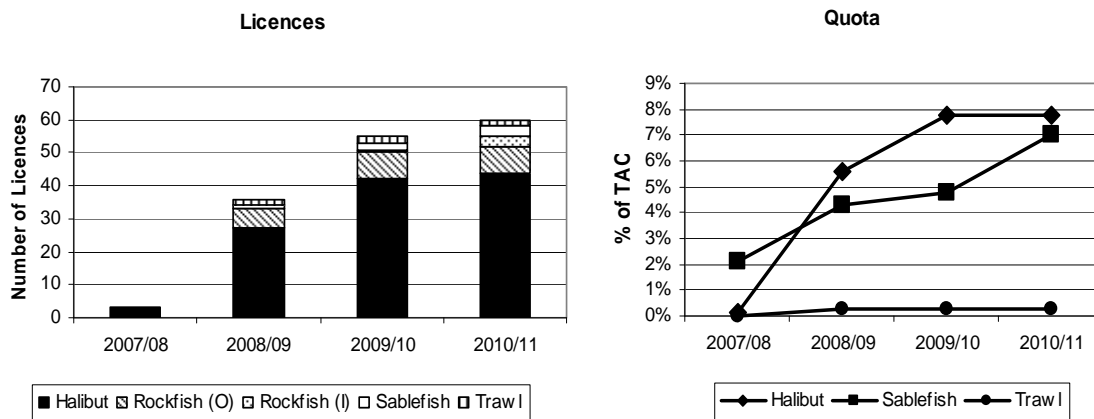
The commercial groundfish fishing sector includes the harvesting sector and the processing sector (including export activities). These activities provide benefits to the individual businesses (producer surplus or economic profits) as well as contribute directly and indirectly to the economy through expenditures on labour, supplies and services.

### 7.3.1 Participation

The number of active vessels, and thus presumably crew, involved in the harvest of groundfish declined between 2007 and 2010, from 304 vessels to 265. Information is not available to determine the number of individuals involved in the harvest of groundfish.

Aboriginal participation in the groundfish fishery may occur through communal licences, or as individual ownership of licences and vessels. Information on individual ownership is not available. Communal licences (F) identify communal Aboriginal participation within the commercial groundfish fishery and allow Aboriginal communities to designate vessels and individual fishers to carry out the fishing. The ATP and PICFI programs have been used by DFO to acquire commercial groundfish licence eligibilities (K, L, ZN, T, Schedule II), as well as quota for halibut, sablefish and trawl (Figure 4). In 2010, 24 unique vessels fished communal licence eligibilities; however, the number of licences in agreements has increased since then. In 2012, all PICFI groundfish licences and quota were allocated in agreements with 24 Commercial Fishing Enterprises.

**Figure 4: Cumulative Acquisition of Groundfish Licences and Quota by PICFI and ATP, 2007-2010**



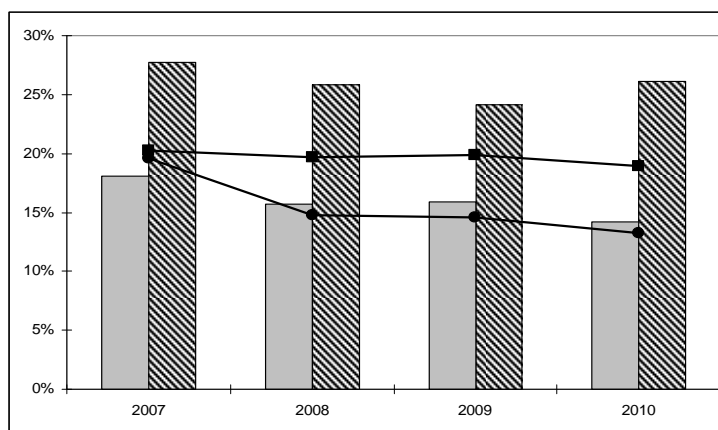
### 7.3.2 Economic Contribution

In 2010, the commercial fishery accounted for 40% of the GDP (14% from fish harvesting and 26% from seafood processing) attributed to fisheries and aquaculture in BC (Figure 5). The commercial fishery also accounted for 32% of the employment (13% from fish harvesting and 19% from seafood processing) attributed to fisheries and aquaculture in BC. The groundfish fishery was the largest component of the fish harvesting sector and was responsible for approximately 35% of the GDP for the fishing harvesting sector. There is no information on the share of processing GDP attributable to groundfish; however, groundfish accounted for about 34% of the fish processing wholesale value in 2010.<sup>5</sup>

<sup>5</sup> British Columbia Seafood Industry Year in Review. Various years. BC Ministry of Environment. <http://www.env.gov.bc.ca/omfd/index.html>  
Groundfish Integrated Fisheries Management Plan



**Figure 5: Share of BC fisheries and aquaculture sector GDP (bars) and employment accounted for by capture fishing (solid bar, circles) and fish processing (pattern bar, squares), 2007-2010 (% of sector total)**



Source: BC Stats. 2012. British Columbia's Fisheries and Aquaculture Sector.

During the period 2007-2010, there has been a 23% decline in the real landed value of the fishery, with a decline in value for all species except Pacific Cod (Table 1). These declines are closely matched by declines in the real wholesale value of the fishery. This decline is primarily due to a decline in the quantity harvested as inflation adjusted prices have increased (halibut, sablefish) or been stable except for Pacific Cod and Pollock which experienced a decline in average prices.

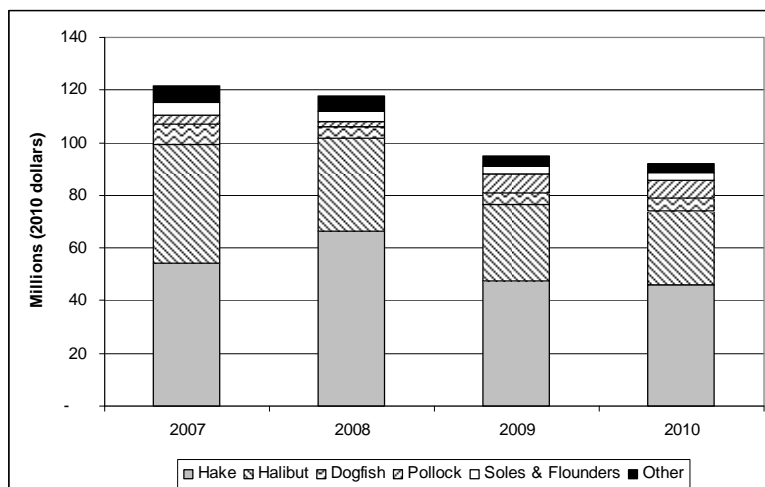
**Table 1: Landed and Wholesale value for groundfish in BC, 2007-2010 (in millions of 2010 dollars)**

	Landed Value				Wholesale Value			
	2007	2008	2009	2010	2007	2008	2009	2010
Arrowtooth Flounder	0.876	0.808	0.384	0.054	3.154	3.535	3.088	2.500
Dogfish (Spiny)	2.872	1.297	2.837	1.083	6.940	4.645	7.926	3.900
Hake (Pacific)	21.358	25.382	15.442	14.636	63.403	83.921	52.910	52.200
Halibut (Pacific)	53.605	39.096	32.632	36.583	171.598	125.630	136.908	121.900
Lingcod	6.303	6.336	5.396	4.529	11.671	10.806	9.162	6.800
Pacific Cod	0.829	0.556	1.512	2.127	2.418	2.525	3.294	3.600
Pollock (Walleye)	0.856	0.532	1.026	0.925	4.521	2.424	5.765	3.700
Rockfish	23.503	22.176	22.321	21.151	38.168	35.447	38.293	35.000
Sablefish	24.471	23.275	23.218	21.778	30.492	31.811	30.882	26.000
Soles & Flounders	4.960	4.622	4.491	3.841	11.566	9.392	8.853	8.000
Other Fish	1.265	0.918	0.876	1.014	11.461	14.744	13.073	11.500
<b>Total</b>	<b>140.898</b>	<b>124.999</b>	<b>110.135</b>	<b>107.722</b>	<b>355.393</b>	<b>324.880</b>	<b>310.154</b>	<b>275.100</b>

The export data does not allow for identification of all groundfish species (e.g. rockfish); however, for identifiable species other than Pollock there has been a decline in export values (Figure 6). Again, this appears to be primarily due to reduced volumes as inflation-adjusted prices were steady or increased for all species, except for Hake and

Pollock, which had modest price declines. BC also imports substantial quantities of groundfish. Between 2007 and 2010, the average value of imports for Halibut, Cod and Pollock, were \$51.5M, \$9.6M and \$5.9M respectively.

**Figure 6: Value of key groundfish exports, 2007 to 2010 (in millions of 2010 dollars)**

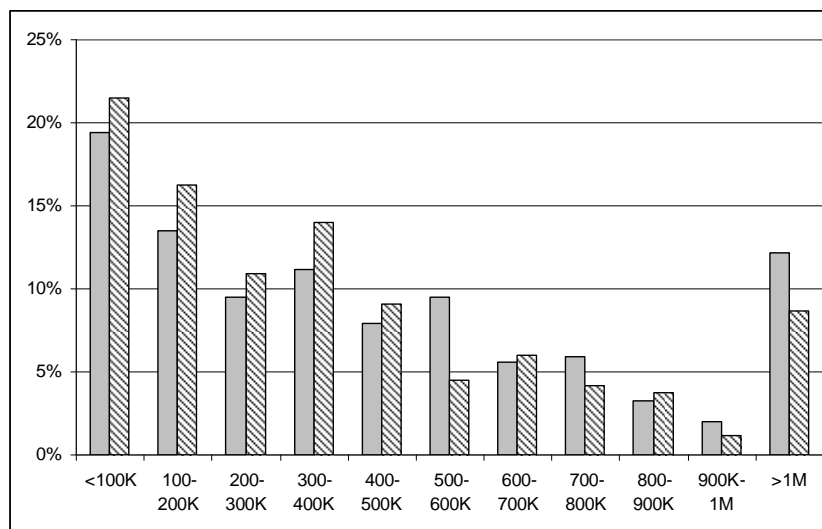


Note: Pollock is sum of cusk+pollock HS codes, plus pollock-only HS codes  
Source: Statistics Canada. EXIM.

Much of the commercial groundfish fishery in BC has been managed using limited access, individual vessel-based quota, in some cases for decades. Integration of the groundfish fleets was made permanent in 2009 after being initiated in 2006. Integration allows for a combination of temporary and permanent transfers of quota allocations between licence types. In response, fishing vessel owners, including individuals and processors, have developed a range of business strategies that generally include licences in multiple fisheries.

The decline in real landed value for the groundfish fishery is reflected in lower real revenues for some vessels participating in the fishery, despite a decline in the number of active vessels from 304 in 2007 to 265 in 2010. Figure 7 compares fishing operations in all groundfish fisheries, and illustrates the diversity of sizes of individual groundfish fishing operations. The distribution of vessels by total revenues (2010 dollars) has shifted somewhat, with a higher proportion of vessels with total revenues less than \$100,000 from all sources (22% vs. 19% for 2010 and 2007, respectively) and a decline in the proportion of vessels in the higher revenue categories.

**Figure 7: Distribution of vessels by total revenue category, 2007 (solid) vs. 2010 (pattern) (in 2010 dollars)**



To address concerns regarding the financial viability of the small boat groundfish fleet, a research project has been initiated by the Canadian Fisheries Research Network. The project, will among other things, evaluate the trade-offs between economic benefits and harvest alternatives.<sup>6</sup> This research involves industry, government and academia.

For Aboriginal communities and individuals, participation in the commercial groundfish fishery provides socio-economic benefits from revenues generated by leasing, profits from harvesting and employment-generated income.

### 7.3.3 Social and Cultural Significance

There is a lack of information on communities of residence for groundfish captains and crew. Consequently, it is not possible to comment of the social significance of the groundfish harvesting sector to BC communities. In the case of processing employment, past work has suggested a strong correlation between the off-loading location of groundfish and processing employments.<sup>7</sup> There are smaller centres for which commercial fishing and fish processing are integral elements of the local economy<sup>8</sup>. In some locations, groundfish represents a significant component of processing employment<sup>9</sup>.

<sup>6</sup> Canadian Fisheries Research Network. 2012. Project 3.3a – Applying management strategy evaluation to identify economically viable harvesting options for the B.C. small boats groundfish fleet. <http://www.cfrn-rcrp.ca/tiki-index.php?page=Public-Project3.3a-EN>. Accessed November 30, 2012.

<sup>7</sup> Fraser and Associates. 2008. Linkages Between the Primary Fish Production and Fish Processing Sectors in British Columbia: Final phase 2 report. Prepared for the Department of Fisheries and Oceans, Pacific Region. Victoria, British Columbia.

<sup>8</sup> *Ibid.*

<sup>9</sup> BC STATS. (2010). Groundfish and Sardine Fisheries. Available online at: <http://www.env.gov.bc.ca/omfd/reports/>. Last accessed December 29, 2011.

There is a long history of commercial groundfish fishing in British Columbia. This history has been documented by several authors, although the link between current culture and the historical significant is less documented.<sup>10</sup> The industrial halibut fishery harvested halibut back to the 1880's, but the harvest was largely marketed in Seattle until the arrival of the railroad.<sup>11</sup> From small shipments east in 1888, the fishery grew until it accounted for over 80% of Canadian halibut landings by the 1940s. Prince Rupert, labelled the "Halibut Capital of the World", originally shipped via steamships but switched to rail in 1913, with dozens of rail cars of frozen halibut shipped each month.

The trawl fishery began with only a few nets in the early 1900s, with the otter trawl introduced in 1911. Initially most of the harvest was sold locally. The trawl fishery went through a number of periods of growth and decline, with growth during both World Wars. The WWII expansion was based largely on the development of the dogfish liver oil market. The groundfish fishery remains part of the BC coast<sup>12</sup>, with expanded methods, and provides seafood for domestic and international markets.

## 8. OTHER GROUND FISH MANAGEMENT ISSUES

### 8.1. Depleted Species Concerns

#### 8.1.1. Species at Risk

The *Species at Risk Act* (SARA) came into force in 2003. The purposes of the Act are "to prevent wildlife species from being extirpated or becoming extinct, and to provide for the recovery of a wildlife species that are extirpated, endangered or threatened as a result of human activity and to manage species of special concern to prevent them from becoming endangered or threatened". More information on SARA can be found at [www.sararegistry.gc.ca](http://www.sararegistry.gc.ca).

In addition to the existing prohibitions under the *Fisheries Act*, under SARA it is illegal to kill, harm, harass, capture, take, possess, collect, buy, sell or trade any listed endangered or threatened animal or any part or derivative of an individual. These prohibitions apply unless a person is authorized, by a permit, licence or other similar document issued in accordance with SARA, to engage in an activity affecting the listed species or the residences of its individuals. Species listed as special concern are not included in these prohibitions.

Endangered, threatened, and special concern species in Pacific region currently listed under SARA can be found at <http://www.dfo-mpo.gc.ca/species-especes/listing-eng.htm>. In the Pacific Region, the following SARA-listed species may be encountered:

---

<sup>10</sup> For example: Forester, Joseph E. and Anne D. Forester. 1975. British Columbia's Commercial Fishing History. Hancock House Publishers Ltd., Saanichton, BC.

<sup>11</sup> Forester, Joseph E. and Anne D. Forester. 1975. British Columbia's Commercial Fishing History. Hancock House Publishers Ltd., Saanichton, BC.

<sup>12</sup> Robson, Peter A. and Michael Skog (editors). 1996. Working the Tides: A Potrait of Canada's West Coast Fishery. Harbour Publishing, Madeira Park, BC.

1. Basking Shark - Endangered
2. Blue Whale – Endangered
3. Bluntnose Sixgill Shark – Special Concern
4. Fin Whale – Threatened
5. Grey Whale – Special Concern
6. Harbour Porpoise – Special Concern
7. Humpback Whale – Threatened
8. Killer Whale northern resident population – Threatened
9. Killer Whale offshore population – Special Concern
10. Killer Whale southern resident population – Endangered
11. Killer Whale transient population – Threatened
12. Leatherback Turtle – Endangered
13. Longspine Thornyhead – Special Concern
14. North Pacific Right Whale – Endangered
15. Rougheye Rockfishes Types I & II – Special Concern
16. Sea Otter – Special Concern
17. Sei Whale – Endangered
18. Steller Sea Lion – Special Concern
19. Tope (Soupfin) Shark – Special Concern
20. Yelloweye Rockfish – Special Concern

Some marine or anadromous species of fish designated by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) that are currently under consideration for listing under SARA include:

- Bocaccio Rockfish – Endangered
- Canary Rockfish – Threatened
- Darkblotched Rockfish – Special Concern
- Quillback Rockfish – Threatened
- Yellowmouth Rockfish – Threatened
- North Pacific Spiny Dogfish – Special Concern
- Eulachon, Fraser River Population – Endangered
- Eulachon, Central Pacific Coast Population – Endangered
- Eulachon, Nass/Skeena Population – Special Concern
- Northern Fur Seal - Threatened

#### 8.1.2. Shark Codes of Conduct

Out of the fourteen shark species in Canadian Pacific waters, three species are listed under SARA (see above). The Basking Shark (*Cetorhinus maximus*) is listed as Endangered, and the Bluntnose Sixgill Shark (*Hexanchus griseus*) and Tope Shark (*Galeorhinus galeus*) are listed as species of Special Concern. The primary threats to shark species have been identified as bycatch and entanglement. In order to address the conservation concerns with shark species, it is important that measures are taken to reduce the mortality of sharks resulting from these primary threats. As such, commercial fishing licences have been amended to include a Condition of Licence for Basking Sharks that specifies mitigation measures in accordance with SARA permit requirements. Additionally, two 'Code of Conduct for Shark Encounters' documents have been

developed to reduce the mortality of Basking Shark, as well as other Canadian Pacific shark species such as Bluntnose Sixgill and Tope Shark resulting from entanglement and bycatch in commercial, aquaculture, and recreational fisheries. These guidelines include boat handling procedures during visual encounters with Basking Sharks, as well as best practices for handling Canadian Pacific shark species during entanglement encounters. These documents have been posted online and can be found at the following URL links.

Code of conduct for sharks: [http://www.pac.dfo-mpo.gc.ca/fm-gp/species-especes/shark-requin/conduct\\_shark-conduite\\_requin-eng.html](http://www.pac.dfo-mpo.gc.ca/fm-gp/species-especes/shark-requin/conduct_shark-conduite_requin-eng.html).

Code of conduct for Basking Sharks: [http://www.pac.dfo-mpo.gc.ca/fm-gp/species-especes/shark-requin/conduct\\_basking-conduite\\_pelerin-eng.html](http://www.pac.dfo-mpo.gc.ca/fm-gp/species-especes/shark-requin/conduct_basking-conduite_pelerin-eng.html).

Industry has taken additional steps that complement these Codes of Conduct. Since the 2012/2013 season, the Groundfish trawl industry, in support of Fisheries and Oceans Canada's increased conservation efforts for some Elasmobranchs - particularly those listed as SARA species – has supported a prohibition on the selling and retention of Pacific Basking Shark, Tope (Soupfin) Shark or Bluntnose Sixgill Shark in the British Columbia groundfish trawl fishery.

Additionally, cognizant of the international efforts taken to protect shark species, the groundfish trawl industry has agreed to eliminate all directed fishing for shark species, other than Pacific Spiny Dogfish, as of the 2012/2013 season.

Most current encounters of these and other shark species are not targeted, and the groundfish trawl industry has worked with the Department to develop practical measures and protocols that may minimize encounters and mortality. These protocols can be found in section 20 of the Groundfish Trawl Harvest Plan, which is Appendix 8 to this document.

#### 8.1.3. Whale, Leatherback Turtle and Basking Shark Sightings or Entanglements

The Department welcomes assistance in the reporting of any whale, leatherback turtle or basking shark sightings or entanglement. Sightings for basking shark, leatherback turtles and many whale species are infrequent in Pacific Canadian waters, and the collection of sightings data is very useful to scientists in determining population size and distribution. Establishing this information can in turn help in the recovery planning under SARA.

To report sick, injured, distressed or dead marine mammals and sea turtles contact the DFO Marine Mammal Incident Reporting Hotline:

Toll free: 1-800-465-4336

To report whale or turtle sightings contact the BC Cetacean Sighting Network:

Toll free: 1-866-I-SAW-ONE (1-866-472-9663)

Fax: (604) 659-3599

Email: [sightings@vanaqua.org](mailto:sightings@vanaqua.org)

Internet: <http://wildwhales.org/sightings/>

<http://www.bcreptiles.ca/reportsightings.htm#1>

To report basking shark sightings contact the Basking Shark Sightings Network:

Toll free: 1-877-50-SHARK

Email: [BaskingShark@dfo-mpo.gc.ca](mailto:BaskingShark@dfo-mpo.gc.ca)

[www.pac.dfo-mpo.gc.ca/SharkSightings](http://www.pac.dfo-mpo.gc.ca/SharkSightings)

#### 8.1.4. Inshore Rockfish Conservation

In 2002, an inshore rockfish conservation strategy was established with initial measures introduced for recreational and commercial fisheries. The strategy addresses four areas under the fisheries management and stock assessment regime:

- a) Protect a part of inshore rockfish populations from harvest through the use of rockfish conservation areas.
- b) Collect information on total fishery mortalities through improved catch monitoring programs.
- c) Reduce harvests to levels that are less than the estimates of natural mortality (i.e. less than two percent).
- d) Improve the ability to assess the status of inshore rockfish populations and monitor changes in abundance.

There are 164 Rockfish Conservation Areas (RCAs) in place within BC waters. The most recent additions were implemented February 1, 2007 in the Strait of Georgia area. Fish harvesters are reminded prior to fishing to check with the local DFO office to verify RCA and other closures currently in effect. A description of all RCAs can be found at: <http://www.pac.dfo-mpo.gc.ca/fm-gp/maps-cartes/rca-acis/index-eng.htm>.

Consultations with First Nations will continue so that management of their fisheries will be consistent with conservation objectives and Departmental obligations with respect to priority access for food, social, and ceremonial purposes.

#### 8.1.5. Bocaccio Rockfish Conservation

Based on updated science information, the Department set out a plan in 2013 for stepped reductions of total bocaccio harvest to a target level of 75 tonnes over 3 years (2013-14 to 2015-16). The plan is described in more detail in the rebuilding plan appendix to this IFMP (appendix 9). The rebuilding plan accounts for First Nations' priority access for food, social, and ceremonial purposes. The Department has worked with fishing interests to develop measures that will reduce bocaccio catch and enable stock rebuilding over the long term. Subsequent to the introduction of these reductions, in November 2013, the Committee On The Status Of Endangered Wildlife In Canada (COSEWIC) reassessed Bocaccio and recommended it for listing under the Species At Risk Act as "endangered".

Taking into consideration advice provided by fishing interests, the Department established pilot measures for the 2013/2014 fishing season that are intended to reduce bocaccio catch in the commercial and recreational fisheries that encounter them. These measures remain in effect. Please refer to relevant conditions of licences, appendix 9, and the harvest plans in the appendices of this IFMP for further information. The Department will review the efficacy of these pilot measures at the end of each fishing season and consider any additional measures necessary to achieve stock rebuilding.

## 8.2. Oceans and Habitat Considerations

In 1997, the Government of Canada enacted the *Oceans Act*. This legislation provides a foundation for an integrated and balanced national oceans policy framework supported by regional management and implementation strategies. In 2002, Canada's Oceans Strategy was released to provide the policy framework and strategic approach for modern oceans management in estuarine, coastal, and marine ecosystems. As set out in the *Oceans Act*, the strategy is based on the three principles of sustainable development, integrated management, and the precautionary approach. The *Oceans Act*, the *Canada Wildlife Act*, and the *National Marine Conservation Areas Act* have given rise to several initiatives on the BC coast, which are listed below. As goals, objectives, and management plans are finalized for these initiatives, the Department's management of fisheries will be adapted as appropriate, in consultation with interested parties through Integrated Fisheries Management processes.

**PNCIMA:** An integrated management plan for the Pacific North Coast Integrated Management Area (PNCIMA) has been developed to help coordinate various ocean management processes and to complement and link existing processes and tools including IFMPs. The PNCIMA is one of five national Large Ocean Management Areas identified in Canada's 2005 Oceans Action Plan, and the plan is the product of a collaborative process led through an oceans governance agreement between the Government of Canada, British Columbia and First Nations, and contributed to by a diverse group of organizations, stakeholders and interested parties. High level and strategic, the plan provides direction on and commitment to integrated, ecosystem-based and adaptive management of marine activities and resources in the planning area as opposed to detailed operational direction for management.

The plan outlines a framework for ecosystem-based management (EBM) for PNCIMA that includes assumptions, principles, goals, objectives and strategies. This EBM framework has been developed to be broadly applicable to managers, decision-makers, regulators, community members and resource users alike, as federal, provincial and First Nations governments, along with stakeholders, move together towards a more holistic and integrated approach to ocean use in the planning area.

Implementation of the plan is the shared responsibility of all signatories to the planning process and will be undertaken within existing programs and resources. An electronic copy of the plan will be available online at [www.pncima.org](http://www.pncima.org).



**Marine Protected Area Network Planning:** The Oceans Act mandates DFO with leading and coordinating the development and implementation of a national network of marine protected areas. The National Framework for Canada's Network of Marine Protected Areas (National Framework) provides strategic direction for national network design which encompasses each of Canada's thirteen marine bioregions. Consistent with this direction, a Canada-British Columbia Marine Protected Area Network Strategy has been developed jointly by federal and provincial agencies. This Strategy reflects the need for governments to work together to achieve common marine protection and conservation goals. Bioregional marine protected area network planning will identify new areas of interest for protection by DFO, Parks Canada Agency, Environment Canada, the Province of BC, and any other agencies with a mandate for protecting marine spaces. Future network MPAs may overlap or include groundfish fishing areas depending on the type and nature of the MPA. More information on MPA Network Planning can be found at: <http://www.dfo-mpo.gc.ca/oceans/management-gestion/marineprotection-protectionmarine/index-eng.htm#network>

**Marine Protected Areas (MPAs):** DFO is also responsible for designating Marine Protected Areas (MPAs) under Canada's *Oceans Act*. Under this authority, DFO has designated two MPAs in the Pacific Region. The Endeavour Hydrothermal Vents, designated in 2003, lie in waters 2,250m deep 250 km southeast of Vancouver Island. The SGaan Kinghlas-Bowie Seamount Marine Protected Area (SK-B MPA), designated in 2008, is 180 km west of Haida Gwaii (formerly known as the Queen Charlotte Islands). MPA regulations and management plans articulate any restrictions on activities taking place within the MPA, where applicable. At this time, all fisheries are restricted within the Endeavour and SK-B MPAs, except for a limited Sablefish trap fishery within the SK-B MPA (see SK-B MPA section below for further detail).

Work is ongoing to obtain MPA designations for other areas along the Pacific Coast, including the Race Rocks area off Rocky Point south of Victoria (currently designated as a Provincial Ecological Reserve) and the Hecate Strait / Queen Charlotte Sound Glass Sponge Reefs which are located at depths of 140m to 200m in Hecate Strait and Queen Charlotte Sound. Changes to existing IFMPs with respect to fishing activities may be required upon designation of these MPAs. In addition, alignment of IFMPs and MPA Management Plans will be necessary. More information on MPAs can be found at: <http://www.dfo-mpo.gc.ca/oceans/marineareas-zonesmarines/mpa-zpm/index-eng.htm>

**National Marine Conservation Areas (NMCAs):** The Canada *National Marine Conservation Areas Act* provides for the establishment of National Marine Conservation Areas (NMCAs). Parks Canada, DFO and the Council of the Haida Nation are working together on the management of the Gwaii Haanas NMCA through the exchange of information on marine resources, fisheries and cultural data and coordinated consultations. Measures respecting the management of the Gwaii Haanas NMCA will be articulated in future IFMPs.

**Marine National Wildlife Areas (NWA's):** Under the Canada Wildlife Act, Environment Canada may establish marine National Wildlife Areas (NWA's). The Scott Islands marine National Wildlife Area, located on off the northern tip of Vancouver Island, has been proposed for designation through amendment to the Wildlife Area Regulations. DFO would continue to regulate and administer fisheries, including clam fishing, within the proposed area. Environment Canada and DFO will develop a collaborative approach and agreement regarding management of fisheries in the area. More information on NWA's can be found at: <http://www.ec.gc.ca/ap-pa/default.asp?lang=En&n=2BD71B33-1>

**SGaan Kinghlas-Bowie Seamount Marine Protected Area:** The SGaan Kinghlas-Bowie Seamount Marine Protected Area (SK-B MPA) is located 180 km offshore of Haida Gwaii on the Pacific coast. The SK-B seamount rises from a depth of 3,000 metres to within 25 meters of the surface making it one of the shallowest seamounts in the north Pacific. The MPA comprises the SK-B, Hodgkins and Davidson Seamounts of the Kodiak-Bowie seamount chain and has a total area of approximately 6,131 square kilometres.

The SK-B MPA has been established to conserve and protect the unique biodiversity and biological productivity of the area's marine ecosystem. The MPA's regulations establish the outer boundary of the MPA, which includes the SGaan Kinghlas-Bowie, Hodgkins and Davidson Seamounts — consisting of the seabed, the subsoil and the water column above the seabed — that is bounded by a series of rhumb lines drawn from a point 53°03'07.6" N, 135°50'25.9" W, to a point 53°16'20.9" N, 134°59'55.4" W, then to a point 53°39'49.2" N, 135°17'04.9" W, then to a point 53°39'18.0" N, 135°53'46.5" W, then to a point 53°52'16.7" N, 136°30'23.1" W, then to a point 53°49'19.6" N, 136°47'33.1" W, then to a point 53°40'02.5" N, 136°57'03.5" W, then to a point 53°13'59.2" N, 136°10'00.0" W, then back to the point of commencement (points are shown in Figure 8).

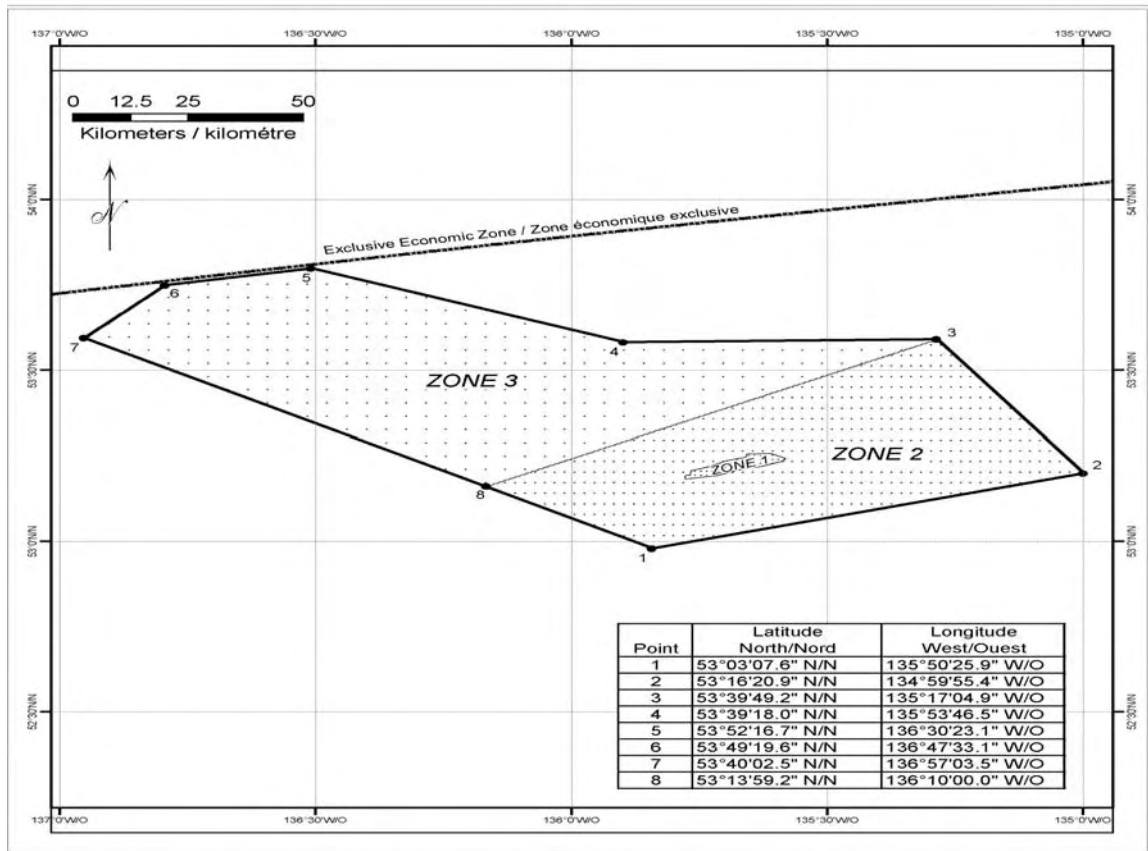


Figure 8. Sgaan Kinghlas-Bowie Seamount Marine Protected Area. Boundary coordinates are shown here in degrees-minutes-seconds (DMS-format), as per the format in the *Bowie Seamount Marine Protected Area Regulations, 2008*.

The Government of Canada and the Council of the Haida Nation signed a Memorandum of Understanding in April 2007 which established the SK-B Management Board to facilitate the cooperative management and planning of the proposed MPA. As a result, DFO and the Council of the Haida Nation are collaboratively developing a management plan for the SK-B MPA which will consider advice from an advisory committee, stakeholders through existing processes, and the public. This management plan will elaborate on the regulations to implement the conservation and management objectives for the MPA and will address matters such as monitoring, enforcement and compliance.

Commercial fishing activities within the MPA are managed through the Integrated Fisheries Management process. Three zones are identified in this IFMP, some of which are fisheries closures which are used to manage the sablefish fishery. Further details on the management of fisheries in the SK-B MPA can be found in Appendix 7.

**Cold-Water Coral and Sponge Conservation Strategy:** DFO’s Pacific Region Cold-Water Coral and Sponge Conservation Strategy encompasses short and long-term goals and aims to promote the conservation, health and integrity of Canada’s Pacific Ocean cold-water coral and sponge species. The Strategy also takes into consideration the need to balance the protection of marine ecosystems with the maintenance of a prosperous economy. It was created with input from stakeholders throughout the Pacific Region and

will help regional partners and stakeholders to understand how DFO's existing programs and activities tie into cold-water coral and sponge conservation.

The Department, with the full support of the groundfish trawl industry, implemented measures to preserve four unique sponge reefs located in waters off central and northern British Columbia. These areas were last amended at the start of the 2007/2008 season.

These sponge reefs, discovered only a decade ago, are some of the few known examples of living *Hexactinellid* sponge reefs in the world today. The reefs cover nearly 1,000 square kilometres of seabed in eastern Queen Charlotte Sound and Hecate Strait. These living fossil structures can reach more than 15 metres in height and are thought to be formed approximately 10,000 years ago. Due to the fragile skeleton nature of the reefs, it is believed that the sponge skeletons are susceptible to damage from physical contact by fishing gear. Additionally, the dense coverage of sponges provides habitat for a variety of invertebrate and fish species.

As part of the MPA designation process for this area, the Department is assessing potential impacts of other gear types to ensure current measures continue to provide the needed protection of the sponge reef ecosystems.

**Habitat and Coral Protection Measures in the Groundfish Trawl Fishery:** In 2012, the Canadian Groundfish Research and Conservation Society (on behalf of the British Columbia commercial groundfish trawl industry) and the Pacific Marine Conservation Caucus agreed to innovative management measures that restricted trawl fishing to provide protection of coral and sponge habitat off the west coast of Canada. The objectives were:

- To reduce and manage the catch of corals and sponges by the British Columbia groundfish bottom trawl fishery;
- To reduce the impact of the British Columbia groundfish bottom trawl fishery on low energy and low productivity environments in deep waters off of the west coast of British Columbia;
- To ensure that the British Columbia groundfish bottom trawl fishery does not disproportionately affect any one particular benthic habitat type;
- To ensure that the British Columbia groundfish bottom trawl fishery is restricted to areas previously trawled between 1996-2011; and
- To improve the performance of the British Columbia groundfish bottom trawl fishery against habitat criteria used to evaluate the sustainability of fisheries.

#

Specific management measures adopted included:

- Freezing the footprint of groundfish bottom trawl activities.
- Establishing a combined habitat bycatch conservation limit (HBCL) for coral and sponges.
- Allocating the HBCL among groundfish trawl licence holders and allow for transferability within specified vessel caps with the groundfish trawl fleet,

- The establishment of an encounter protocol for trawl tows where combined coral and sponge catch exceeds 20 kg.

The Department accepted these management measures and implemented them on April 2, 2012 for the groundfish bottom trawl fishery.

**Policy for Managing the Impacts of Fishing on Sensitive Benthic Areas (SBA):**

Benthic ecosystems provide habitat, support food webs and are an important source of biodiversity. They also support many aquatic species that play an important social, cultural and economic role in the lives of many Canadians. It is imperative that these ecosystems are considered when managing oceans activities, including the harvest of fisheries resources. This includes the consideration of target species, non-target species, the ecosystems of which they are a part and the impact of fishing on these ecosystems when making management decisions. This is the basis of an ecosystem approach to fisheries management, which, along with a precautionary approach, is key to the Sustainable Fisheries Framework.

To avoid serious or irreversible harm to sensitive benthic habitat, species and communities and otherwise address impacts to benthic habitat, communities and species, this policy follows a five (5) step process. Ongoing fishing activities in historically fished areas will be managed to address impacts of fishing on sensitive benthic areas through existing processes, including the advisory processes in place for the given fishery, following these steps. The management of proposed new fishing activities in frontier areas will be addressed through a separate procedure, also using these steps. For more information on the SBA Policy, please visit the following web site:

<http://www.dfo-mpo.gc.ca/fm-gp/peches-fisheries/fish-ren-peche/sff-cpd/benthi-eng.htm>

### **8.3. Gear Impacts**

There is growing interest in assessing and mitigating the impacts of fishing gear on the seafloor because these habitats play an important role in maintaining fish and shellfish production. Unfortunately, major gaps still exist in our knowledge of how deep-sea ecosystems respond to different types of fishing disturbances. Simon Fraser University (SFU) and Fisheries and Oceans Canada (DFO) are collaborating with fishing industry members of the BC Seafood Alliance to complete a project entitled "An exposure-response methodology for assessing the impacts of bottom-fishing gear on benthic marine ecosystems".

The overall goal of this study is to develop exposure-response models by combining spatial mapping of bottom-fishing effort intensity and habitat (the exposure) with remotely-operated vehicle surveys of habitat-forming species density (the response). This approach provides a flexible and adaptive framework that builds the necessary information to support eco-certification of British Columbia's (BC) bottom-fisheries. In addition, a better understanding of how bottom habitat responds to fishing disturbances will help the fishing industry design operational changes that reduce or eliminate these impacts.

In 2009, the SFU/DFO/Industry team assembled information on fishing effort, bottom habitat, and biological communities in BC's offshore fishing areas and, in 2010, collaborated on a joint research cruise of Hecate Strait, B.C, collecting a combination of ROV video and still photo data, oceanographic data, benthic grab samples and acoustic multibeam bathymetry and backscatter data.

More recently, with support from the Natural Sciences and Engineering Research Council of Canada, along with funding and expertise from DFO and the Canadian Sablefish Association, a novel camera-motion sensor system was developed for assessing seabed impacts of trap gear. The systems were tested in October 2012 on the Canadian Sablefish Association's annual offshore trap survey. The resulting video and accelerometry data are being analyzed at SFU.

Gathering information on gear impacts from commercial groundfish fisheries continues to be an area of priority for both the Department and its stakeholders. This project is working towards improving data and developing management strategies to address the concerns.

#### **8.4. Gwaii Haanas National Marine Conservation Area**

Following extensive consultation with interested parties, Parks Canada, in collaboration with Fisheries and Oceans Canada and the Council of the Haida Nation, established the Gwaii Haanas National Marine Conservation Area Reserve and Haida Heritage Site (Gwaii Haanas Marine Area) on June 17, 2010. The Gwaii Haanas Marine Area is located in the southern portion of Haida Gwaii (Queen Charlotte Islands) approximately 100 kilometres off the north coast of British Columbia.

The Gwaii Haanas Marine Area was established to protect and conserve ecosystems in the southern portion of Haida Gwaii. The Marine Area comprises 3,500km<sup>2</sup> of water and seabed adjacent to the existing Gwaii Haanas National Park Reserve and Haida Heritage Site.

As part of the establishment process, Parks Canada, Fisheries and Oceans Canada and the Council of the Haida Nation developed an Interim Management Plan and preliminary zoning plan for the Gwaii Haanas Marine Area. This plan identifies six zones which are closed to commercial and recreational fishing. Descriptions of these closed zones can be found in each harvest plan located in the appendices of the Groundfish IFMP. Development of a long term management plan for the Gwaii Haanas Marine Area is scheduled to be completed by March 2015 and will take place in consultation with the commercial and recreational fishing sectors through the Department's established integrated fishery planning and advisory processes.

Commercial fishing activities within the Gwaii Haanas Marine Area will be managed through the Integrated Fisheries Management process. Annual fishing plans will be developed in consultation with stakeholders and specific actions (openings and closures) for the Gwaii Haanas Marine Area will be taken under the authority of the Fisheries Act and its regulations. Please refer to the harvest plans for maps describing the closures.

## 9. ACCESS AND ALLOCATION

### 9.1. Quotas and Allocations

#### 9.1.1. Halibut Commercial-Recreational Allocation Framework

In February 2012 Minister Ashfield announced a change to the Halibut Allocation Policy. The 2003 policy, which provided 12% of the commercial-recreational TAC to the recreational sector and 88% to the commercial sector, has been changed to allocate 15% of the commercial-recreational TAC to the recreational sector and 85% to the commercial sector. Please refer to the DFO Media webpage for more information regarding this decision: <http://www.dfo-mpo.gc.ca/media-eng.htm>.

#### 9.1.2. First Nations

Coastal First Nations harvest groundfish for FSC purposes under the *Aboriginal Communal Fishing Licences Regulations* or Treaty Harvest Agreements. In both cases, allocations are specified, and the fisheries are licenced and conducted under the authority of the Minister.

With respect to treaties, agreements are in place with the Nisga'a and Maa-nulth First Nations which provide for groundfish harvests. The treaties set out the management process, and operational procedures to guide harvesting, catch monitoring and reporting considerations, and other matters.

The Nisga'a Final Agreement came into effect on May 11, 2000. The Nisga'a Nation comprises four individual Villages; Gingolx, Laxgalts'ap, Gitwinksihlkw, and New Aiyansh in the Nass Valley on the north coast of British Columbia. More information on the Nisga'a Final Agreement can be found at: <http://www.aadnc-aandc.gc.ca/eng/1100100031292/1100100031293>.

The Maa-nulth Final Agreement came into effect on April 1, 2011. The Maa-nulth First Nations comprise five individual First Nations; Huu-ay-aht First Nations, Ka:'yu:'k't'h'/Che:k'tles7et'h' First Nations, Toquaht Nation, Uchucklesaht Tribe and the Ucluelet First Nation on the west coast of Vancouver Island. More information on the Maa-nulth Final Agreement can be found at: [http://www.bctreaty.net/nations/agreements/Maanulth\\_final\\_intial\\_Dec06.pdf](http://www.bctreaty.net/nations/agreements/Maanulth_final_intial_Dec06.pdf).

In addition to fishing opportunities for FSC purposes (or domestic purposes for treaty bands), DFO acknowledges that in *Ahousaht Indian Band et al. v. Canada and British Columbia*, the courts have found that five Nuu-chah-nulth First Nations located on the West Coast of Vancouver Island - Ahousaht, Ehattesaht, Hesquiaht, Mowachaht/Muchalaht, and Tla-o-qui-aht - have what the courts have characterize as "aboriginal rights to fish for any species of fish within their Fishing Territories and to sell that fish, with the exception of geoduck".

The Department is working with the First Nations pursuant to the rights found by the courts, to find "the manner in which the plaintiffs' rights can be accommodated and exercised without jeopardizing Canada's legislative objectives and societal interests in regulating the fishery."

DFO has been providing the First Nations with communal commercial groundfish fishing licences and quota. Discussions are on-going with the five First Nations regarding continuing this access for 2014 and potential demonstration fishery proposals.

### 9.1.3. Recreational

Daily and possession limits are in place for various groundfish species. These are described in the British Columbia Tidal Waters Sport Fishing Guide available at: <http://www.pac.dfo-mpo.gc.ca/fm-gp/rec/index-eng.html>.

Since 2011, an optional experimental program has also been in place which allows interested recreational harvesters to temporarily transfer commercial halibut quota onto an experimental licence for the purposes of recreational fishing. This pilot program allows those who choose to participate the opportunity to fish for halibut beyond the daily and possession limits or beyond the season closure date for the regular recreational halibut fishery. In February 2012, the Minister announced that the Department would move forward with regulatory changes to continue this transfer mechanism for the long term. Please refer to the DFO Media webpage for more information regarding this decision: <http://www.dfo-mpo.gc.ca/media-eng.htm>.

### 9.1.4. Commercial

The commercial total allowable catch for various groundfish species are allocated between the different groundfish sectors. Formal discussions between the hook and line rockfish (ZN), halibut and trawl sectors were initiated in 2000 to establish individual rockfish species allocations between the sectors to modify the 1997 adopted “92/8” trawl/hook and line allocation. The agreed to allocation of groundfish species between the commercial sectors are as follows:

#### 9.1.4.1. Rockfish Species

Species	Trawl %	ZN Hook and Line %	Halibut %
Canary	87.70%	11.77%	0.53%
Longspine Thornyhead	95.35%	2.29%	2.36%
Pacific ocean perch	99.98%	0.02%	0.00%
Quillback, Copper, China, Tiger	2.56%	87.97%	9.47%
Redbanded Rockfish	50.00%	37.50%	12.5%
Redstripe	97.23%	2.77%	0.00%
Rougheye	55.80%	41.17%	3.03%
Shortspine Thornyhead	95.40%	2.27%	2.33%
Shortraker	52.30%	43.92%	3.78%
Silvergray	88.43%	10.97%	0.60%
Widow	98.21%	1.79%	0.00%
Yelloweye	2.54%	64.34%	33.12%
Yellowmouth	96.77%	2.49%	0.74%
Yellowtail	98.91%	1.09%	0.00%



9.1.4.2. Non-quota Rockfish Species

<b>Non-quota Species</b>	<b>Trawl %</b>	<b>Halibut/ZN Hook and Line %</b>
Aurora Rockfish	90.00%	10.00%
Black Rockfish	14.00%	86.00%
Blue Rockfish	5.00%	95.00%
Brown Rockfish	5.00%	95.00%
Chillipepper Rockfish	65.00%	35.00%
Darkblotch Rockfish	99.00%	1.00%
Dusky Rockfish	50.00%	50.00%
Greenstripe Rockfish	96.00%	4.00%
Harlequin Rockfish	99.00%	1.00%
Bocaccio Rockfish	93.00%	7.00%
Rosethorn Rockfish	65.00%	35.00%
Sharpchin Rockfish	99.00%	1.00%
Shortbelly Rockfish	0.00%	100.00%
Splitnose Rockfish	99.00%	1.00%
Vermillion Rockfish	1.00%	99.00%

9.1.4.3. Other Groundfish

<b>Species</b>	<b>Trawl %</b>	<b>Hook and Line %</b>
Lingcod	74.00%	26.00%
Dogfish	32.00%	68.00%
Hake, pollock, Pacific cod & sole	100.00%	0.00%
Sablefish	8.75%	91.25%

9.1.5. Annual Commercial Total Allowable Catch

As a result of rounding, the TAC allocations by management area do not sum to the coast-wide total for some species. For the exact TAC values, please contact a member of the Groundfish Management Unit, found in Appendix 1. Portions of some of the TACs listed here will be allocated for research purposes. Details of research allocations are found in the harvest plans included as appendices to this document.

<b>Species</b>	<b>Area</b>	<b>TAC All Sectors Tonnes</b>	<b>Hook &amp; Line/Trap Tonnes</b>	<b>Trawl tonnes</b>
Yellowtail rockfish	3C	1,006	11	995
	3D, 5A/B, 5C/D/E	3,464	38	3,427
	Coastwide total	4,471	49	4,422
Widow rockfish	Coastwide total	2,358	42	2,316
Canary rockfish	3C/D	529	26	503
	5A/B	240	43	197
	5C/D	100	21	79
	5E	31	21	10
	Coastwide total	900	111	789
Silvergray rockfish	3C/D	324	37	286
	5A/B	631	73	558
	5C/D	573	66	507
	5E	373	43	329
	Coastwide total	1,900	220	1,680
Pacific ocean perch	3C/D	750	0	750
	5A/B	1,687	0	1,687
	5C	1,544	0	1,544
	5D/E	1,200	0	1,200
	Coastwide total	5,192	1	5,192
Yellowmouth rockfish	3C	224	5	219
	3D, 5A/B	1,162	27	1,135
	5C/D	702	17	685
	5E	357	32	325
	Coastwide total	2,444	81	2,364
Rougheye rockfish	Coastwide total	1,140	504	636
Shortraker rockfish	Coastwide total	240	114	126
Redstripe rockfish	3C	178	5	173
	3D, 5A/B	794	22	772
	5C/D	339	9	330
	5E	253	7	246
	Coastwide total	1,564	43	1,521
Shortspine	Coastwide total	771	35	735

<b>Species</b>	<b>Area</b>	<b>TAC All Sectors Tonnes</b>	<b>Hook &amp; Line/Trap Tonnes</b>	<b>Trawl tonnes</b>
thornyheads				
Longspine thornyheads	Coastwide total	425	20	405
Redbanded rockfish	Coastwide total	590	295	295
Yelloweye rockfish	3C/D, 5A	83	81	2
	5B	60	58	2
	5C/D	64	62	2
	5E	70	68	2
	4B	7	7	0
	Coastwide total	284	277	7
Quillback, Copper, China and Tiger rockfish	3C/D, 5A	76	74	2
	5B	41	39	1
	5C/5D	66	64	2
	5E	12	12	0
	4B	26	26	0
	Coastwide	220	214	5
Bocaccio rockfish	Coastwide	N/A	N/A	150
Pacific cod	3C/D	500	0	500
	5A/B	590	0	590
	5C/D/E	1,200	0	1,200
	Coastwide total	2,290	0	2,290
Dover sole	3C/D	1,375	0	1,375
	5C/D/E	1,100	0	1,100
	5A/B	598	0	598
	Coastwide total	3,073	0	3,073
Rock sole	3C/D	102	0	102
	5A/B	650	0	650
	5C/D	800	0	800
	Coastwide total	1,552	0	1,552
Lemon sole	3C/D, 5A/B	186	0	186
	5C/D/E	636	0	636
	Coastwide total	822	0	822
Petrale sole	Coastwide	900	0	900
Lingcod*	3C	950	150	800
	3D	800	360	440
	5A/B	1,062	200	862
	4B (Area 12 only)	38	38	0
	5C/D/E	1,000	420	580
	Coastwide total	3,650	1,078	2,572
Spiny Dogfish	4B	2,000	1,360	640

Species	Area	TAC All Sectors Tonnes	Hook & Line/Trap Tonnes	Trawl tonnes
	Rest of Coast	12,000	8,160	3,840
	Coastwide total	14,000	9,520	4,480
Sablefish	Coastwide total	1996	1821	175
Pollock	Gulf	1,115	0	1,115
	5A/B (includes Area 12)	1,790	0	1,790
	5C/D/E	1,320	0	1,320
	Coastwide total	4,225	0	4,225
Gulf Hake	Gulf	7,000	0	7,000
Offshore Hake	Rest of Coast	87,815	0	87,815
Halibut**	Coastwide	2627	2627	**
Big Skate	5C/D	567	N/A	567
Longnose Skate	5C/D	47	N/A	47
Arrowtooth Flounder	Coastwide total	15,000	N/A	15,000

\* The Lingcod coastwide total includes the 38 tonne allocation to cover 4B trip limits. This tonnage is not allocated to licence holders, nor is it transferable.

\*\*The groundfish trawl fishery has a bycatch mortality cap of 454 tonnes that is not part of the allocated commercial TAC. Halibut caught while fishing under the authority of a groundfish trawl licence cannot be retained and must be returned to the water as quickly as possible.

#### 9.1.5.1. Hook and Line Rockfish TACs – Halibut and ZN

Species	Area	ZN tonnes	Halibut Tonnes	Research tonnes
Canary rockfish	3C/D	23	1	
	5A/B	40	2	
	5C/D	18	1	
	5E	19	1	
	Coastwide total	101	5	6
Silvergray rockfish	3C/D	35	2	
	5A/B	69	4	
	5C/D	63	3	
	5E	41	2	
	Coastwide total	208	11	7
Yellowmouth rockfish	3C	4	1	
	3D, 5A/B	20	6	
	5C/D	13	4	
	5E	24	7	
	Coastwide total	60	18	3
Rougheye rockfish	Coastwide	451	33	20

Species	Area	ZN tonnes	Halibut Tonnes	Research tonnes
Shortraker rockfish	Coastwide	102	9	4
Shortspine thornyhead	Coastwide	17	17	1
Longspine thornyhead	Coastwide	10	10	0
Redbanded Rockfish	Coastwide	210	74	11
Yelloweye rockfish	3C/D, 5A	66	13	
	5B	30	26	
	5C/5D	39	22	
	5E	37	29	
	4B	6	1	
	Coastwide	178	92	7
Quillback, Copper, China and Tiger rockfish	3C/D, 5A	67	4	
	5B	35	3	
	5C/5D	51	10	
	5E	7	4	
	4B	25	0	
	Coastwide	185	21	7

#### 9.1.5.2. Species-Area Groups

All groundfish hook and line licence holders will be permitted to hold quota for up to 29 species-area groups of holdings. Landings of other groundfish will be managed through trip limits or landings allowances. Additional species areas groups are in place for the groundfish trawl fishery and can be found in Appendix 8.

Pacific Halibut (Coastwide)	Silvergray rockfish (5E)
Sablefish (Coastwide)	Yelloweye rockfish (3C, 3D, 5A)
Lingcod (3D)	Yelloweye rockfish (5B)
Lingcod (3C)	Yelloweye rockfish (5C, 5D)
Lingcod (5A, 5B)	Yelloweye rockfish (5E)
Lingcod (5C, 5D, 5E)	Yelloweye rockfish (4B)
Dogfish (3C, 3D, 5A, 5B, 5C, 5D, 5E)	Quillback, Copper, China and Tiger rockfish (3C, 3D, 5A)
Dogfish (4B)	Quillback, Copper, China and Tiger rockfish (5B)
Canary rockfish (3C, 3D)	Quillback, Copper, China and Tiger rockfish (5C, 5D)
Canary rockfish (5A, 5B)	Quillback, Copper, China and Tiger rockfish (5E)
Canary rockfish (5C, 5D)	Quillback, Copper, China and Tiger rockfish (4B)
Canary rockfish (5E)	Rougeye rockfish (Coastwide)
Silvergray rockfish (3C, 3D)	Redbanded rockfish (Coastwide)
Silvergray rockfish (5A, 5B)	Shortraker rockfish (Coastwide)
Silvergray rockfish (5C, 5D)	Shortspine thornyhead (Coastwide)

## 9.2. Outgoing Sector Caps

The following caps are the amount of quota species, in pounds, permitted to leave a sector. These figures represent initial caps established at the outset of the 2014 fishing season. The figures can change regularly. Please consult the DFO website for the most current figures: <http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/index-eng.htm>.

Species	Area	Sector (Outgoing)						
		Halibut (pounds)	Sablefish (pounds)	ZN Outside (pounds)	ZN Inside (pounds)	Trawl (pounds)	Dogfish (pounds)	Lingcod (pounds)
Canary rockfish	3C, 3D	2,309	No Limit	51,248	0	103,460	No Limit	No Limit
	5A, 5B	3,948	No Limit	87,632	0	50,706	No Limit	No Limit
	5C, 5D	1,830	No Limit	40,598	0	19,841	No Limit	No Limit
	5E	1,904	No Limit	42,378	0	7,111	No Limit	No Limit
Lingcod	3C	No Limit	No Limit	No Limit	0	226,367	No Limit	330,690
	3D	No Limit	No Limit	No Limit	0	93,699	No Limit	595,242
	5A, 5B	No Limit	No Limit	No Limit	0	351,680	No Limit	440,920
	5C, 5D, 5E	No Limit	No Limit	No Limit	0	443,835	No Limit	925,930
Pacific Halibut	Coastwide	893,863	No Limit	No Limit	No Limit	0	No Limit	No Limit
Quillback, Copper, China and Tiger rockfish	3C, 3D, 5A	8,892	No Limit	148,417	0	0	No Limit	No Limit
	5B	7,122	No Limit	76,767	0	0	No Limit	No Limit
	5C, 5D	22,817	No Limit	112,592	0	0	No Limit	No Limit
	5E	8,530	No Limit	15,353	0	0	No Limit	No Limit
	4B	No Limit	0	0	3,000	0	0	0
Rougheye rockfish	Coastwide	73,129	No Limit	993,633	0	494,322	No Limit	No Limit

Species	Area	Sector (Outgoing)						
		Halibut (pounds)	Sablefish (pounds)	ZN Outside (pounds)	ZN Inside (pounds)	Trawl (pounds)	Dogfish (pounds)	Lingcod (pounds)
Sablefish	Coastwide	No Limit	590,127	No Limit	0	42,873	No Limit	No Limit
Shortraker rockfish	Coastwide	19,301	No Limit	224,263	0	69,999	No Limit	No Limit
Shortspine thornyhead	Coastwide	38,462	No Limit	37,496	0	381,843	No Limit	No Limit
Redbanded rockfish	Coastwide	162,500	No Limit	487,500	0	585,000	No Limit	No Limit
Silvergrey rockfish	3C, 3D	3,091	No Limit	56,519	0	23,104	No Limit	No Limit
	5A, 5B	6,031	No Limit	110,258	0	45,480	No Limit	No Limit
	5C, 5D	5,473	No Limit	100,066	0	40,697	No Limit	No Limit
	5E	3,560	No Limit	65,089	0	34,451	No Limit	No Limit
Spiny Dogfish	3C, 3D, 5A, 5B, 5C, 5D, 5E	No Limit	No Limit	No Limit	0	4,232,832	16,190,582	No Limit
	4B	No Limit	0	0	No Limit	1,269,850	25,000	0
Yelloweye rockfish	3C, 3D, 5A	29,268	No Limit	144,404	0	0	No Limit	No Limit
	5B	56,945	No Limit	67,045	0	0	No Limit	No Limit
	5C, 5D	49,209	No Limit	85,955	0	0	No Limit	No Limit
	5E	64,638	No Limit	82,517	0	0	No Limit	No Limit
	4B	0	0	0	8,000	0	0	0

### 9.3. Incoming Sector Caps

The following caps are the amount of quota species, by pounds, permitted to enter a sector. These figures represent initial caps established at the outset of the 2014 fishing season. The figures can change regularly. Please consult the DFO website for the most current figures: <http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/index-eng.htm>.

Species	Area	Sector (Incoming)						
		Halibut (pounds)	Sablefish (pounds)	ZN Outside (pounds)	ZN Inside (pounds)	Trawl (pounds)	Dogfish (pounds)	Lingcod (pounds)
Canary rockfish	3C, 3D	13,000	26,000	2,000	-	86,521	11,682	4,673
	5A, 5B	13,686	43,099	2,000	-	29,179	2,683	2,236
	5C, 5D	10,922	4,710	2,000	-	11,983	4,202	2,801
	5E	10,625	6,503	2,000	-	13,289	1,446	1,033
Lingcod	3C	73,353	62,347	60,000	0	144,613	100,000	30,000*
	3D	131,211	77,632	200,000	0	31,441	30,243	20,000*
	5A, 5B	256,192	84,119	250,000	0	95,244	32,045	75,000*
	5C, 5D, 5E	549,647	133,623	250,000	0	192,863	43,632	200,000*
Pacific Halibut	Coastwide	0	192,726	220,000	25,000	0	373,137	80,000
Quillback, Copper, China and Tiger rockfish	3C, 3D, 5A	60,000	3,000	9,000	0	0	30,000	7,282
	5B	20,000	1,000	5,691	0	0	3,000	2,258
	5C, 5D	50,000	2,000	14,000	0	0	2,600	8,122
	5E	15,000	2,000	5,746	0	0	300	583



		<b>Sector (Incoming)</b>						
<b>Species</b>	<b>Area</b>	<b>Halibut (pounds)</b>	<b>Sablefish (pounds)</b>	<b>ZN Outside (pounds)</b>	<b>ZN Inside (pounds)</b>	<b>Trawl (pounds)</b>	<b>Dogfish (pounds)</b>	<b>Lingcod (pounds)</b>
	4B	No Limit	0	0	0	0	3,000	0
Rougheye rockfish	Coastwide	350,000	400,000	154,322	0	250,000	10,000	100
Sablefish	Coastwide	400,000	100,000	0	0	100,000	30,000	3,000
Shortraker rockfish	Coastwide	80,000	100,000	35,274	-	22,695	5,000	100
Shortspine thornyhead	Coastwide	189,562	150,000	57,320	0	16,134	5,000	100
Redbanded rockfish	Coastwide	126,974	250,000	380,921	0	457,105	10,000	10,000
Silvergrey rockfish	3C, 3D	20,000	7,000	8,818	-	25,000	2,500	5,545
	5A, 5B	50,000	20,000	17,637	-	47,151	3,000	5,500
	5C, 5D	50,000	6,000	10,000	-	38,799	4,000	2,862
	5E	40,000	20,000	11,023	-	20,342	500	2,232
Spiny Dogfish	3C, 3D, 5A, 5B, 5C, 5D, 5E	5,000,000	2,000,000	400,000	0	189,388	4,232,832	0
	4B	272,311	0	0	25,000	0	972,539	0
Yelloweye rockfish	3C, 3D, 5A	91,539	19,121	15,062	0	0	30,000	17,950
	5B	54,685	6,000	46,478	0	0	5,000	5,048
	5C, 5D	67,245	6,000	30,128	0	0	5,562	24,807
	5E	69,344	22,825	41,320	0	0	300	13,366
	4B	0	0	0	0	0	8,000	0

*° Incoming Lingcod quota to the Lingcod sector must have originated from the Trawl sector.*

## **10. COMMERCIAL MANAGEMENT MEASURES**

It is important that all vessel owners, licence holders and harvesters thoroughly review this management plan and licence conditions prior to fishing.

### **10.1. Commercial Sector Groups**

There are seven distinct commercial groundfish sector groups, Groundfish trawl (T), Halibut (L), Sablefish (K), Inside Rockfish (ZNI), Outside Rockfish (ZNO) and the Lingcod and Dogfish fisheries that are managed as separate fisheries using ITQs.

### **10.2. Individual Vessel Accountability**

Vessels are individually accountable for their catch, both directed and non-directed. Subject to species, area, time and gear closures, along with vessel caps and trip limits, vessels will be permitted to land non-directed catch.

Vessels are required to acquire ITQ to account for mortality of all legal/marketable sized groundfish that are managed under species and area TACs as referenced in Section 9.1.5. for the hook and line and trawl sectors. Other groundfish species will be managed under trip limits or will have no limits. Harvesters should reference licence conditions for more details. A vessel's catch is calculated by adding both landed weight and the estimated mortality of all catch either utilized at-sea or released at-sea. Vessels landing fish in excess of the ITQ holdings identified in licence conditions and the allowable overage will be restricted from further fishing opportunities until such time as additional ITQ has been acquired.

DFO and the groundfish trawl industry agreed to a two step approach to instil full responsibility for catch by eliminating the designation of catch as marketable and non-marketable for fish released at-sea. The 2011/2012 fishing season marked the first year of one hundred (100) percent responsibility of all species caught within the groundfish trawl fishing fleet. The objective is to ensure full accountability and responsibility for catch of all quota species while continuing to provide incentive for better utilization of catch, reduce at-sea releases and development of improved fishing practices.

### **10.3. Sector Caps**

To ensure that harvesters have access to non-directed catch from other sectors, sector caps have been established that limit the amount of ITQ from one sector that may be accessed by any other sector. In addition, each sector has identified a quantity of ITQ that is permitted to leave the sector. The initial sector access caps and access provided are listed in Section 9.2 and Section 9.3. The figures in Sections 9.2 and 9.3 can change regularly. Please consult the DFO website for the most current figures: <http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/index-eng.htm>.

### **10.4. Reallocations of Individual Quota**

Subject to annual species caps and sector holding caps, the temporary reallocations of ITQ between vessels and between commercial sectors will be permitted.

Permanent reallocations of ITQ are restricted to intra-sector reallocations, specifically Halibut species within the Halibut sector, Sablefish species within the Sablefish sector, and several groundfish species within the Groundfish Trawl sector. All temporary and permanent reallocations are subject to the individual sector rules. The Groundfish Management Unit (GMU) has worked to make the necessary changes to the quota management system to allow for permanent intra-sector reallocations for the remaining species. Permanent intra-sector reallocations will be permitted.

#### **10.5. Multiple Hail-outs**

A vessel may hail out for one directed commercial groundfish fishery only, except when hailing out for both Halibut and Sablefish fishing.

#### **10.6. At-Sea Monitoring**

Timely and accurate information on harvesting practices and the catch composition and location is essential to assess the status of fish stocks and to ensure the conservation and long-term sustainability of fish resources. Effective monitoring and accurate catch reporting are integral to resource management, enforcement of fisheries rules and the development of effective management plans. Monitoring of all catch, both landed and at-sea releases is critical to sustainable fisheries management. At-sea monitoring encourages responsible fishing and provides information supportive of Canada's international obligations for fisheries.

Complete 100 percent monitoring on all commercial groundfish fishing trips is required to monitor at-sea releases and record fishing activity, location, date and time.

Trawl monitoring requirements can be found in the Groundfish Trawl Commercial Harvest Plan Appendix 8. Monitoring requirements for all groundfish hook and line/trap fisheries can be found in Appendix 2.

#### **10.7. In-Season Updates**

Important changes are made to the IFMP throughout the season. For announcements of in-season updates to the IFMP, please refer to:

- Pacific Region Management Plan website at:  
<http://www-ops2.pac.dfo-mpo.gc.ca/xnet/content/MPLANS/MPlans.htm#Groundfish>
- Fishery Notice website at:  
<http://www-ops2.pac.dfo-mpo.gc.ca/xnet/content/fns/index.cfm>

In-season sector catch and sector cap summaries are updated daily and may be found at:  
<http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/index-eng.htm>

## **11. SHARED STEWARDSHIP ARRANGEMENTS**

### **11.1. Commercial Industry**

A Joint Project Agreement (JPA) currently exists between Fisheries and Oceans Canada and Wild Canadian Sablefish Ltd. (WCS). Further information can be found in the

Sablefish Harvest Plan, Appendix 7. JPAs are also being considered for 2014-15 between Fisheries and Oceans Canada and several industry partners to support groundfish science activities through the allocation of fish to finance the activities, consistent with the authority granted to the Minister in recent Fisheries Act amendments described earlier in section 1.5.

## **11.2. Fisheries and Oceans Canada**

The groundfish fisheries in British Columbia are managed through the Groundfish Management Unit. This includes six Fisheries Management personnel directly involved in the management of this fishery. In addition, a groundfish stock assessment unit, located at the Pacific Biological Station contributes to annual stock assessments for groundfish species. Contributions to the IFMP are provided by Fisheries Management, the Science Branch, Conservation and Protection, the Pacific Fishery Licence Unit, the Treaty and Aboriginal Policy Directorate, and numerous administrative personnel. A list of DFO contacts is provided in Appendix 1.

## **12. COMPLIANCE PLAN**

### **12.1. Overview**

The Conservation and Protection (C&P) program, part of the Ecosystems and Fisheries Management Sector, has a large role in facilitating compliance with the acts and regulations associated with Canada's aquatic resources. Through modern community policing practices, C&P uses education, partnering, enforcement and problem solving to assist in the conservation and protection of the fishery resources.

There are approximately 155 fishery officers stationed in the Pacific Region, which encompasses the province of British Columbia and Yukon Territory. They are designated as "fishery officers" under Section 5 of the *Fisheries Act* and have full enforcement powers and responsibilities outlined in the *Fisheries Act*, *Coastal Fisheries Protection Act*, *Oceans Act*, *Species at Risk Act*, the *Criminal Code* of Canada and the *Constitution Act*.

Observers perform duties best described as "Observe, Record and Report." Duties are related to monitoring of fishing activities, examination and measurement of fishing gear, collection of biological samples, recording scientific data, monitoring the landing of fish and verification of the weight and species of fish caught and retained. Observers, while performing a vital role contributing to regulatory compliance, are not enforcement officers. Observers must carry proof of their designation by DFO as an Observer (laminated card).

Dockside Observers monitor and document weigh-out inspections at all approved landing locations. Observers interview the fisher, assigning catch to the appropriate stock area, spot-check harvest logs for consistency with verbal reports and notify the Department of any occurrences observed during the interview, logbook review and offload process.

Fishery officers are tasked with the responsibility of responding coast-wide to calls from the general public, other agencies, observers and other industry users reporting all types

of occurrences including commercial groundfish landings. Fishery officers inspect and investigate groundfish vessels for compliance with terms and Conditions of Licences, *Fisheries Act* and related Regulations and Variation Orders.

## **12.2. Enforcement Issues**

Observers perform a key role in observing, documenting and reporting to DFO fishing related occurrences. Occurrence reporting procedures are reviewed with the objective of ensuring that fishery officers coast-wide are able to provide prompt response to significant enforcement issues.

Fishery officers conduct inspections both dockside and at sea to verify compliance with Licence Conditions. Due to the complexity of transferable Individual Transferable Quota (ITQ) and the related licence amendment system, tracking of catch quantities under the ITQ system is primarily performed administratively under the dockside monitoring program.

## **12.3. Current Priorities**

Fishery officers will:

- investigate all incidents of Closed Area fishing such as RCAs, sponge reef protection areas, and other Closed Areas;
- continue to enforce compliance with hail-out, hail-in and other elements of the DMP and at-sea observer program;
- conduct investigations and enforcement actions in response to the retention of groundfish caught, retained or possessed without licence authority. Priority will be placed on occurrences where retention for the purpose of sale is indicated;
- investigate incidents of unauthorized dual fishing; and
- take greater concern for compliance with Electronic Monitoring (EM) Licence Conditions, especially Time Gaps that are reported.

## **12.4. Fishery Patrol Vessels**

All at-sea patrols will be conducted using a combination of small craft (program vessels, mostly 7.33 metre and 9.2 metre rigid hull inflatable boats) and Canadian Coast Guard (CCG) vessels. CCG vessels are staffed and operated by CCG staff, and marine enforcement officers. Fishery Officers may be deployed onboard CCG vessels throughout the year to patrol specific fisheries.

## **12.5. Air Surveillance**

Patrol coverage using chartered aircraft with a fishery officer onboard, is utilised to identify concentrations and distribution of fishing vessels. Aerial surveillance resources are utilized throughout the year to ensure compliance with the Fisheries Act, Regulations and Licence Conditions. Flight reports, photographs and other data collected from the surveillance flights are readily available to departmental managers and fishery officers through an Internet-based flight information system.

### 13. APPENDICES

Appendix 1: DFO Contact Information

Appendix 2: Groundfish Hook and Line/Trap Monitoring Requirements (At-Sea and Dockside), Mortality Rates, and Size Limits

Appendix 3: Schedule II – Other Groundfish Species Commercial Harvest Plan

Appendix 4: Rockfish by Hook and Line (Inside ZN) Commercial Harvest Plan

Appendix 5: Rockfish by Hook and Line (Outside ZN) Commercial Harvest Plan

Appendix 6: Halibut Commercial Harvest Plan

Appendix 7: Sablefish Commercial Harvest Plan

Appendix 8: Groundfish Trawl Commercial Harvest Plan

Appendix 9: Rebuilding plans

Appendix 10: Vessel Safety

Appendix 11: Commercial Groundfish Advisory Committee Contacts

Appendix 12: Fishing Hazards Advisory

### 14. GLOSSARY

Accountability	All harvesters are required to account for or accurately record all catch, both retained and released, for all species when fishing. As such, all catch becomes “accounted” for. Verification of accountability occurs through the monitoring program.
Area/Subarea	As in Section 2 of the <i>Pacific Fishery Management Area Regulations</i> , available through the Internet at:  <a href="http://www.dfo-mpo.gc.ca/communic/policy/dnload_e.htm">www.dfo-mpo.gc.ca/communic/policy/dnload_e.htm</a>
CIC	Commercial Industry Caucus: A committee consisting of commercial groundfish vessel representatives and processors.
Communal Commercial Licence	Issued to First Nations organizations pursuant to the <i>Aboriginal Communal Fishing Licences Regulations</i> for participation in the general commercial fishery.
Communal Licence	Issued to First Nations organizations pursuant to the <i>Aboriginal Communal Fishing Licences Regulations</i> , to conduct fishing and related activities.
COSEWIC	Committee on the Status of Endangered Wildlife in Canada.
CSAP	Centre for Scientific Advice Pacific
CSAS	Canadian Science Advisory Secretariat

C&P	Conservation and Protection Branch
DMP	Dockside Monitoring Program: Program conducted by a company that has been designated by the Department, which verifies the species composition and landed weight of all fish landed from a commercial fishing vessel.
FSC	A fishery conducted by First Nations for food, social and ceremonial purposes.
GIAB	Groundfish Integrated Advisory Board: a committee consisting of representatives from First Nations, commercial groundfish fisheries and unions, recreational fisheries, coastal communities, the province of British Columbia, and environmental non-governmental organizations.
ITQ	Individual Transferable Quotas. The subdivision of a TAC into tradable shares to each commercial groundfish licence holder at the beginning of each season that are transferable between commercial groundfish licences (also referred to as Individual Vessel Quotas)
Observer	An individual who has been designated as an observer by the Regional Director General for Pacific Region pursuant to Section 39 of the <i>Fishery (General) Regulations</i> .
RCA	Rockfish Conservation Area. An area that is closed for the protection of various inshore rockfish species to fishing activities that negatively impact rockfish.
Responsibility	For those species that have a TAC and ITQ, harvesters must acquire sufficient quota to cover the mortality of retained and released species.
SAR	Science Advisory Report
SARA	<i>Species At Risk Act</i>
SFAB	Sport Fishing Advisory Board
SSRPs	Science Special Response Processes
TAC	Total allowable catch: The amount of catch that may be taken annually from a stock.
Tonne	Metric tonne, 1000 kg, or 2204.6 lbs.
Validation	The verification, by an observer, of the weight of fish landed.

## Appendix 1: DFO Contact Information

### Observe, Record and Report

1-800-465-4336

Help to protect our Fisheries Resource

### Groundfish Activity Lines/In-Season Updates

Halibut

604-666-2993

### Regional Headquarters

Regional Resource Manager, Groundfish

Neil Davis

604-666-9033

Trawl Co-ordinator

Barry Ackerman

604-666-3991

Halibut/Sablefish Co-ordinator

Adam Keizer

604 666-0912

Hook and Line Co-ordinator

Rob Tadey

604-666-3279

Trawl Quota Officer

Gerry Dunsmore

604-666-0010

Hook and Line Quota Officer

Louise Yada

604-666-5865

Facsimile

604-666-8525

### Groundfish Stock Assessment

Regional Groundfish Section Head

Greg Workman

250-756-7113

Elasmobranchs

Jackie King

250-756-7176

Inshore Rockfish

Lynne Yamanaka

250-756-7211

Shelf Rockfish

Nathan Taylor

250-756-7134

Slope Rockfish

Andrew Edwards

250-756-7146

Pacific Cod

Robyn Forrest

250-756-7205

Sablefish

Rob Kronlund

250-756-7108

Flatfish/Lingcod

Kendra Holt

250-756-7165

250-363-8835

Pacific Hake/ Port Sampling

Chris Grandin

250-756-7170

Observer Programs

Greg Workman

250-756-7113

### Enforcement

Groundfish Enforcement Co-ordinator

604-666-0202

250-754-0202

Detachment Supervisor, Prince Rupert

250-627-3430

Detachment Supervisor, Queen Charlotte City

250-559-8580

Detachment Supervisor, Bella Coola/Bella Bella

250-799-5698

Detachment Supervisor, Campbell River/Port Hardy

250-754-0221

Detachment Supervisor, Port Alberni/West Coast

250-720-4450

Detachment Supervisor, Victoria

250-363-3252

Detachment Supervisor, Nanaimo

250-754-0235

Detachment Supervisor, Steveston

604-664-9251



## Recreational Fisheries

Recreational Fisheries Co-ordinator	Devona Adams	604-666-3271
North Coast Resource Manager	Angela Addison	250-627-3409
Central Coast Resource Manager	Kristen Wong	250-799-5620
South Coast Resource Manager	Brad Beath	250-756-7190
Lower Fraser River Resource Manager	Brian Matts	604-666-2096

## Treaty and Aboriginal Policy Directorate

Director, Treaty and Aboriginal Policy Directorate	Sarah Murdoch	604-666-7478
Manager, Aboriginal Fisheries Strategy	Ann Susnik	604-666-8385

## First Nations Fisheries

North Coast Resource Manager (Areas 1 - 2)	Victor Fradette	250-559-4467
North Coast AFS Implementation Officer (Areas 3 - 6)	Karen Kimura-Miller	250 627-3020
Central Coast Resource Manager (Areas 7-10)	Kristen Wong	250-799-5346
South Coast Resource Manager (Areas 11-13 & 27)	Greg Hornby	250-286-5886
South Coast Resource Manager (WCVI)	Paul Preston	250-720-4452
South Coast AFS Implementation Officer (SOG)	Kevin Conley	250-756-7196
Lower Fraser River Resource Manager	Brian Matts	604-666-2096

## Regional Data Unit

604-666-2716

## Licensing

Pacific Fishery Licence Unit Suite 200-401 Burrard Street Vancouver, B.C. V6C 3S4	Facsimile	604-666-0566 604-666-5855
---	-----------	------------------------------

Pacific Fishery Licence Unit 417-2nd Avenue West Prince Rupert, B.C. V8J 1G8	Facsimile	250-627-3413 250-627-3496
--	-----------	------------------------------

Pacific Fishery Licence Unit 60 Front Street Nanaimo, B.C. V9R 5H7	Facsimile	250-754-0400 250-754-0403
--	-----------	------------------------------

**Appendix 2: Groundfish Hook and Line/Trap Monitoring Requirements (At-Sea and Dockside), Mortality Rates, and Size Limits**

**TABLE OF CONTENTS**

1.	CATCH MONITORING.....	2
2.	AT SEA OBSERVER COVERAGE .....	2
3.	ELECTRONIC MONITORING SYSTEM.....	2
3.1.	Organizational Requirements .....	2
3.2.	Systems Requirements .....	5
3.3.	Administrative and reporting requirements .....	7
3.4.	Requirements prior to fishing when using EM:.....	8
3.5.	Requirements while fishing with EM: .....	8
3.6.	Measurement grid .....	9
3.7.	Evaluation .....	12
4.	INTEGRATED GROUND FISH FISHING LOG .....	12
5.	HAIL PROGRAM.....	13
5.1.	E-hail System Requirements .....	13
6.	BAIT.....	13
7.	DOCKSIDE MONITORING AND VALIDATION.....	14
7.1.	Hail-in .....	14
7.2.	Designated Landing Locations .....	14
7.3.	Landing .....	14
7.4.	Halibut Tagging .....	15
7.5.	Transport of validated fish .....	16
8.	MORTALITY RATES.....	16
9.	AVERAGE WEIGHTS.....	16
10.	SIZE LIMITS .....	16
10.1.	Halibut .....	17
10.2.	Lingcod .....	17
10.3.	Sablefish.....	17
10.4.	Dogfish-Unmarketable.....	17
11.	RESTRICTIONS.....	17
12.	FISHING LOG AUDIT.....	17
13.	QUOTA STATUS REPORT.....	18
14.	FISHER IDENTIFICATION NUMBERS .....	19
15.	FISH SLIPS .....	19
16.	INTEGRATED GROUND FISH FISHING LOGBOOK.....	20

## **1. CATCH MONITORING**

Information on all catch is necessary for the proper management of the fishery. Monitoring of all catch, both landed and at-sea releases is critical to sustainable fisheries management. Mandatory 100 percent monitoring on all commercial groundfish hook and line and trap fishing trips will be required to provide a full and reliable accounting of all catches in these fisheries, both retained and released, and record fishing activity, location, date and time. This requirement may be met either through at-sea observer coverage or through the use of an Electronic Monitoring (EM) system on each trip. In addition, all landings must be validated through a dockside monitoring program.

## **2. AT SEA OBSERVER COVERAGE**

Under Section 46 of the *Fishery (General) Regulations*, the licence holder or master of a fishing vessel shall, at the request of the Regional Director General, permit an observer to go on board that vessel to perform the designated duties for the period of time specified and arrange for embarkation or disembarkation of the observer at the times and places specified. The vessel master shall provide all reasonable assistance to the observer.

Archipelago Marine Research Ltd. (AMR) is the designated service provider for at-sea observers for the groundfish fisheries. Contact AMR at 1-800-663-7152 to arrange for at-sea observer services or to inquire about costs of this service. Other vessel requirements are outlined in AMR's services agreement that each vessel must complete before an observer is deployed.

## **3. ELECTRONIC MONITORING SYSTEM**

The EM system allows for auditing, on a trip and set basis, the species caught, retained and released at sea. Using an EM system is an alternative to the requirement to carry an at-sea observer. Vessels that do not ensure that the EM system is functional for the entire trip, that the cameras have a clear view of the fishing area at all times, or that release rockfish at-sea, may be required on subsequent trips to carry an at-sea observer.

It is the responsibility of vessel owners / licence holders to arrange for fishery electronic monitoring services from a service provider approved by the Department. Archipelago Marine Research Ltd. (AMR) is the EM service provider currently approved by the Department.

### **3.1. Organizational Requirements**

Vessel masters must arrange for service providers that meet the following organizational requirements.

## Business Plan

Vessel masters must arrange for potential service providers to provide the Department a business plan that includes a description of the organization of the service provider company, its human resources, and its plan of operations, including but not necessarily restricted to:

1. Incorporation papers;
2. Evidence of the company's financial viability, through:
  - a) provision of the organization's financial statements; or
  - b) provision of a performance bond guaranteeing three months operation;
3. A company organization chart listing principals, officers, and employees including job descriptions and responsibilities;
4. An operational plan setting out operational procedures and equipment requirements that demonstrate the capacity to operate EM services on a continuous basis;
5. A human resources plan that demonstrates the capacity and expertise to provide EM services, that:
  - a) demonstrates capacity and expertise to manage technical projects or programs;
  - b) demonstrates capacity and expertise to manage a project which has a training component;
  - c) identifies individuals responsible for training and demonstrate that they have capacity and expertise to deliver training programs to adults.
6. A data quality system that ensures the integrity of the information collected and compiled, which includes:
  - a) a person responsible for the system and his or her duties;
  - b) the operating system and the manner in which the records are kept;
  - c) the control points, the verification procedures, and the process for correcting deficiencies in the system;
  - d) a system for maintaining a record of system failures that details the event and corrective actions taken.
7. A detailed training plan that will be delivered by the company or an independent training organization and a process for amending the plan when changes to legislation, regulation, or policy dictate new program requirements.

## Insurance

The service provider must have Commercial General Liability insurance maintained in force throughout the duration of the period for which they are approved as an EM service provider, in an amount for a limit of liability not less than \$5,000,000 per accident or occurrence.

The service provider must maintain the required insurance coverage for the duration of the period for which they are an approved service provider. Compliance with the insurance requirements does not release the company from or reduce its liability as an approved service provider.

The service provider is responsible for deciding if additional insurance coverage is necessary to ensure compliance with any applicable law. Any additional insurance coverage is at the service provider's expense, and for its own benefit and protection.

The service provider must provide to DFO a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. Coverage must be placed with an Insurer licensed to carry out business in Canada. The service provider must, if requested by DFO, provide a certified true copy of all applicable insurance policies.

### Security and technical capacity

Some of the data collected by EM systems and processed by service providers is Protected information. Each of the company's proposed individuals requiring access to Protected information, assets or work site(s) must meet the security requirement at the requisite level of Reliability Status, granted or approved by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC).

The company must provide the name of all individuals who will require access to Protected information, assets, or sensitive work sites.

To submit catch data to DFO via its Fisheries Operations System, the service provider must have internet access and security clearance to acquire user access to the Fisheries Operations System web services. The service provider must also acquire Secure Virtual Personal Network access (provided by DFO) which includes: (1) Public key infrastructure (PKI) credentials and client software, (2) SVPN client software, and (3) Citrix software or software compatible to client Microsoft Terminal Server. This enables submission of information technology bugs and issues via DFO software. DFO will work with approved service providers to support the connection of service providers to the Fisheries Operations System.

Upon receipt by DFO of the harvest data and fishing location information included in EM data, Section 20(1)(b) of the *Access to Information Act* prevents DFO from disclosing to a third party, records containing financial, commercial, scientific or technical information that is confidential information. Further, Section 20(1)(c) of the *Act* prevents DFO from giving out information, the disclosure of which could reasonably be expected to prejudice the competitive position of the licence holder. Given this, service providers must demonstrate they have data management and security systems capable of preserving the integrity, accuracy, and confidentiality of EM data. Protection measures, including but not necessarily limited to SSL encryption, must be in place for EM data transmitted by service providers to DFO.

Service providers must demonstrate how EM systems are both tamper resistant and capable of indicating when attempted tampering has occurred.

## Arm's Length

Arm's length criteria ensure that there are no actual or perceived conflicts of interest between EM service providers and fishing enterprises. Upon approval, service providers must attest that:

- a) The service provider, its subcontractors or agents and their respective personnel assigned to or engaged for the performance of the work have not accepted and shall not accept any bribe, gift, benefit, or other inducement that would, in any way, cause a real or apparent conflict of interest;
- b) The service provider, its subcontractors or agents and their respective personnel assigned to or engaged for the performance of the work shall have no activities or relationships with any third parties, including fishing vessels owners and operators, that would render it or any of them unable to provide impartial information, assistance or advice to DFO, or affect or otherwise impair its or their objectivity in performing the work.

Should the service provider become aware of any such activity or relationship, bribe, gift, benefit, or other inducement, the service provider must undertake to immediately report the matter, in writing, to DFO.

Upon learning of any potential conflict of interest on the part of the service provider or any of its subcontractors or agents and their respective personnel assigned to or engaged for the performance of the work, DFO may direct the service provider, in writing, to take whatever steps that DFO, in its sole discretion, deems necessary and appropriate to resolve the potential conflict.

Companies must provide a notarized declaration that the company and its directors, principals, officers, shareholders, and employees, and those with any other financial interest in the company have no actual or perceived conflicts of interest with the fishing industry, and meet the arm's length criteria as described here, and explains how any such conflicts will be resolved.

### **3.2. Systems Requirements**

Any electronic monitoring system must be approved by the Department and must include the following minimum specifications and component requirements:

- a) a video and sensor data-logging engine (control box), equipped with monitor and keyboard to verify correct power supply and EM system software and hardware performance, equipped with an external control to allow the user to manually insert time-stamped event markers into the sensor record;
- b) operating software to record imagery during fishing events;
- c) peripheral sensor devices suitable for fishing-deck work environment, including GPS, an electronic hydraulic pressure transducer, and a winch rotation sensor (where applicable);
- d) a minimum of two closed circuit television cameras, suitable for fishing-deck work environment, configured with an adjustable focal length lens to provide a clear view of the catch retrieval process and the measurement of released fish.

- e) have the sensor box connected to a monitor and keyboard to allow the user to view recorded EM imagery and conduct system checks to test system functionality.

Video images captured by the EM system shall meet the following minimum specifications:

- a) image files shall be viewable on Windows media player; if a non-standard Windows media player Codec is used, it shall be provided to Archipelago Marine Research Ltd. for image analysis;
- b) minimum resolution of 640 X 480 dpi and the ability to vary lens choice to ensure an appropriate field of view;
- c) imagery must have a burned-in caption showing vessel identifier, date, time and location;
- d) image files must capture 100% of each catch retrieval event, including a 10 to 30 minute run-on (depending on gear type) after each event;
- e) image frame rates shall be not less than 5 frames per second for catch retrieval imagery; and
- f) image quality must be sufficient to allow clear identification of species.

Sensor data captured by the EM system shall meet the following minimum specifications:

- a) Sensor data should be recorded to an ASCII file at a minimum frequency of once every 10 seconds;
- b) Sensor data format must meet the specifications outlined below:

Date,Time,UTCoffset,Lat,Latmin,Lon,Lonmin,Gpsok,Speed,Heading,Voltage,Saterr,  
Video,Event,Drum,Pressure

080602,120041,-07.00,48,26.1305,123,23.7711,1,00.0,277,11.97,005,0,01,0,0

080602,120051,-07.00,48,26.1305,123,23.7711,1,00.0,257,11.95,005,0,00,0,0

080602,120101,-07.00,48,26.1305,123,23.7711,1,00.0,249,11.95,005,0,00,0,0

080602,120111,-07.00,48,26.1305,123,23.7711,1,00.0,252,11.95,005,0,00,0,0

Comma Delimited Data Format

The date, time, latitude, longitude, speed, heading and satellite error are all delivered by the GPS in National Marine Electronics Association (NMEA) 0183 Version 2.0 format. All data are numeric except the comma separators. Sensor sample interval is 10 seconds.

- 1) **DATE** – fixed width, 6 characters, YYMMDD
- 2) **TIME** – fixed width, 6 characters, HHMMDD, Pacific Standard Time year round.
- 3) **LAT** – Latitude degrees, fixed width, 2 characters
- 4) **LATMIN** – Latitude minutes, fixed width 6 characters including decimal point with 3 decimal characters
- 5) **LON** – Longitude degrees, fixed with 3 characters

- 6) **LONMIN** – Longitude minutes, fixed width 6 characters including decimal point with 3 decimal characters
- 7) **SPD** – Speed knots, fixed width 4 characters including decimal point with 1 decimal character
- 8) **HDG** – Heading degrees, fixed width 3 characters
- 9) **SATERR** – Estimated horizontal position error in metres (radius), fixed width, 3 characters. The horizontal position error (HPE) is delivered in the NMEA 0183 – GPS data stream
- 10) **VIDEO** – Video on/off, fixed width, single character (0 or 1)
- 11) **EVENT** – Operator initiated event marker, fixed width, 1 character (0 or 1)
- 12) **COUNT** – Rotation sensor – drum revolutions during sample interval, column width variable
- 13) **PRES** – Hydraulic pressure reading, pounds per square inch (PSI), column width variable.

### 3.3. Administrative and reporting requirements

Vessel masters must arrange for service providers that can meet the following minimum administrative and reporting requirements:

- a) data collected from the fishing logs shall be entered into DFO's Fisheries Operations System (FOS) within seven (7) days of collection;
- b) imagery viewing shall be completed to conduct audits of fishing logs (see section 12 below);
- c) results of the audit shall be used to produce a quota status report using FOS within five (5) days of the availability of a logbook and validation record in the FOS system (unless an audit has failed);
- d) where an audit has failed, results of the audit shall be used to produce a written report to DFO within five (5) days of the availability of a logbook and validation record in the FOS system;
- e) electronic records of all audits performed shall be maintained;
- f) video and sensor data shall be retained by the service provider responsible for conducting the audit:
  - a. for at least 14 days after data has been reviewed to support audits of fishing logs and until a quota status report has been issued, where data review has not generated an occurrence report or audit failure, or
  - b. for at least 30 days after data has been reviewed to support audits of fishing logs and until a quota status report has been issued or until DFO provides written indication that these data can be destroyed, where data review has generated an occurrence report or audit failure. The service provider will provide DFO 7 days advance notice before the 30 day period is up to allow DFO the opportunity to request the video and sensor data from the service provider for storage in DFO facilities or to provide permission to destroy the data;
- g) video and sensor data shall be provided to DFO upon DFO's request;



- h) audit reports shall be produced that are consistent with requirements set out in section 12 of this appendix, and any further guidance developed by the Commercial Industry Caucus (CIC) EM subcommittee;
- i) occurrence reports shall be produced for breaches of licence conditions within five (5) days of the availability of video and sensor data, a logbook, and validation record in the FOS system, consistent with requirements set out by the DFO Conservation and Protection branch;
- j) monthly reports shall be submitted to DFO using specified templates developed by DFO that include the audit results by fishery, number of vessels, number of trips, landed weight, audit reports, the total hours of EM services, and the total hours of data services provided;
- k) a year-end report shall be submitted to the CIC EM subcommittee summarizing fleet participation and performance, lessons learned, equipment performance, and any further content identified by the CIC EM subcommittee;
- l) meetings of the CIC EM subcommittee shall be attended regularly throughout each year.

### **3.4. Requirements prior to fishing when using EM:**

The vessel master must make arrangements with an approved EM system service provider to install an EM system on board their vessel. The EM system must be functioning prior to hailing out. A functionality test confirming that the EM system is working must be completed by either the EM service provider or through the use of the User Enabled Services (UES) program. The FTCN must be recorded in the fishing log and is required to hail out.

- a) When hailing out, the vessel owner or master must provide the hail service provider with, in addition to the usual trip details, either an FTCN or the name and observer ID number of the embarking at sea groundfish observer for the trip.
- b) A hail out number will only be issued if either the FTCN (confirming a fully operational EM System) or the name of an embarking at sea observer is included in the hail information. The vessel must not depart port until a hail out number has been issued.
- c) A Quota Status Verification Number (QSVN) must also be provided at the time of hail, this number is to be recorded on the validation record at offload.
- d) Vessels must hail out to the designated hail service provider and must receive a hail out number prior to departing on the trip. The hail out number must be recorded in the fishing log. Hail out requirements are fully described in licence conditions.
- e) Archipelago Marine Research Ltd. (AMR), the EM service provider currently approved by the Department, also provides the UES program, a voluntary program that enables a skipper to manage aspects of the EM program that would traditionally be performed by an EM technician. For more information on eligibility and program guidelines, contact AMR.

### **3.5. Requirements while fishing with EM:**

- a) Accurate recording of all fish caught and released in the fishing log is key to both accurate determination of catch and cost-effective fishing log audits. All halibut and sablefish caught and either retained or released must be accurately recorded by piece

count and estimated weight in the fishing log. All other species must be accurately and fully recorded as piece counts. In addition, the set and haul details including fishing time and location must be accurately recorded.

- b) Where an EM system is in use on a vessel, the vessel master shall ensure all components of the system are fully operational during the entire fishing trip from the time the vessel leaves port until the vessel arrives at port to offload and the technician removes the trip information. The EM system shall be continuously powered and not turned off at any time. Vessels masters may also conduct periodic system functionality checks via monitor and keyboard. These checks record EM system performance and have it recorded with a time and date stamp on the system hard drive.
- c) If any or all of the EM system equipment becomes inoperative or malfunctions in any way, the vessel master shall immediately contact the EM system service provider. If the EM system cannot be repaired at sea, the vessel master shall stop fishing by hauling gear and returning to port as soon as possible. Trip data will be reviewed to ensure no fishing occurred after equipment failure. For Sablefish trap vessels, traps can be left in the water (for no more than four days) if the vessel is returning to port to repair the equipment and subsequently returning to the fishing grounds to complete the trip. If the EM system cannot be repaired at port, the vessel must hail-in as soon as possible.
- d) All rockfish species must be retained and landed. See appendices 4 and 5 for further details.
- e) EM system camera views must capture all fishing gear as it is retrieved from the water and all retained and released fish.
- f) Vessel operators and crew should avoid positioning themselves between the camera and the catch as this hampers accurate recording of catch during image review. All catch must be visible to the camera.

### **3.6. Measurement grid**

- a) The use of a measurement grid is optional, however if the vessel master opts not to use a grid then all releases of lingcod, sablefish and halibut will be deemed legal size and all releases of dogfish will be deemed marketable and the appropriate mortality rates will be applied (see Section 7). The vessel master will then be responsible to acquire the necessary quota to address these.
- b) If a measurement grid is used then all sub-legal lingcod, sablefish, halibut and unmarketable dogfish must be held against the grid matching the specifications outlined below in (d). Vessel masters are reminded that fish are to be held against the measurement grid for at least three seconds before release without doing other activities (i.e. removing a hook). The calmer the fish, the easier they are to measure. The objective is to allow video viewers to visually gage the length of the fish. If the grid is used improperly, the fish cannot be measured and the released fish will be deemed legal size.
- c) The exceptions to this are released sablefish on a directed sablefish trip, released halibut on a directed halibut trip, released dogfish on a directed dogfish trip and released lingcod on a directed lingcod trip. On these trips all targeted species that are released at-sea will be assumed to be sub-legal or unmarketable and do not have to be

measured. All levels of releases will be monitored in season to assess this requirement. See size limits in Section 9.

d) Recommended measurement grid specifications:

1. For vessels that choose to discard fish at the rail (Figure 1), or after the fish have come over the rail (Figure 2), measurement stations at the hauling area should have the following delineations:
  - i. Control Level
    - Green band above the bumper that has a height of 5cm and a width of 100cm
  - ii. Bumper
    - Raised material (e.g. existing rail or rubber or angle iron) at bottom of control level, it must be sufficient to act as a control point to hold the tip of the fish against
  - iii. Measurement Bands
    - Red band spanning 55-65cm from the bumper
    - Yellow band spanning 65-75cm from the bumper
    - White band spanning 75-81cm from the bumper
    - Light green band spanning 81-91cm from the bumper
    - White band spanning 91-97cm from the bumper

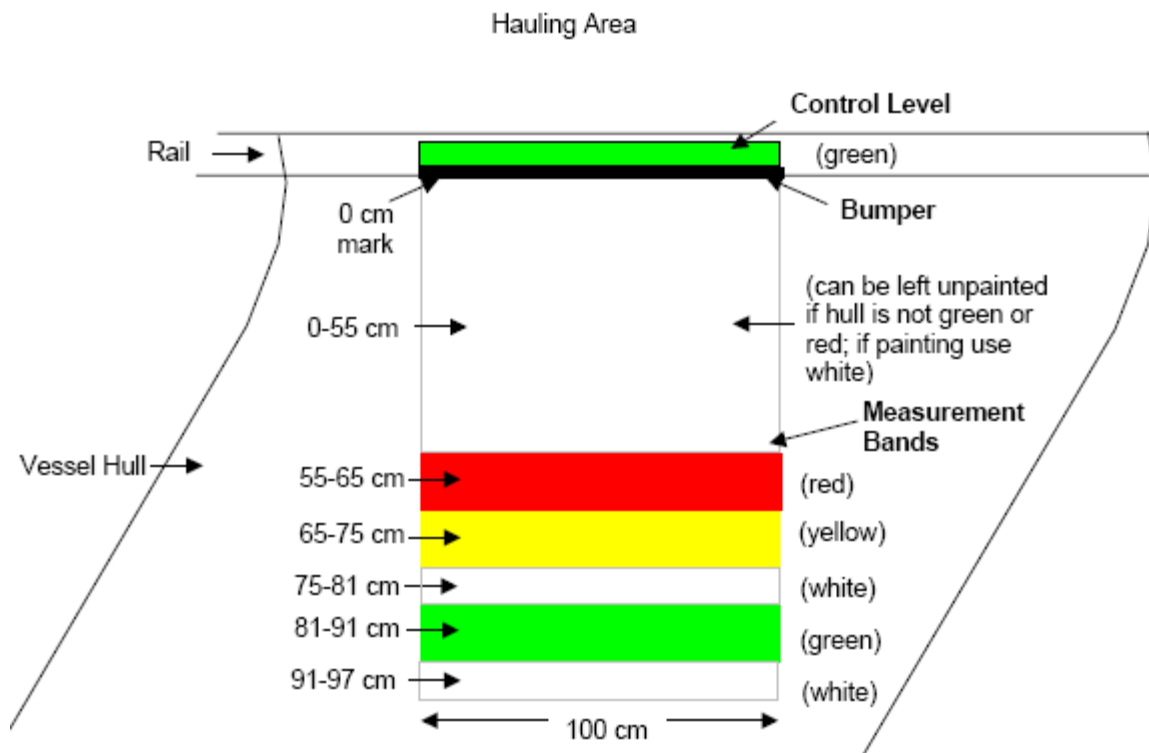


Figure 1. Measurement grid recommendations for vessels releasing at the rail.

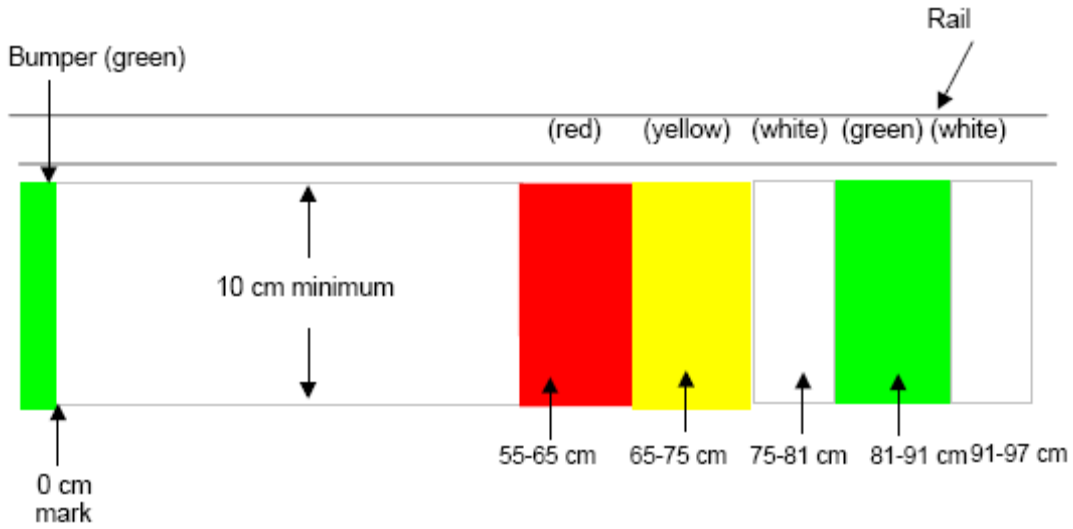


Figure 2. Measurement grid recommendations for vessels releasing after fish have come over the rail.

2. If a vessel does not have adequate freeboard for the bands on the side, infrastructure can be added above the rail at the hauling area (Figure 3). The control level, bumper and any bands above the hull must be a minimum of 10 cm wide; any bands on the hull must meet the specifications stated above.

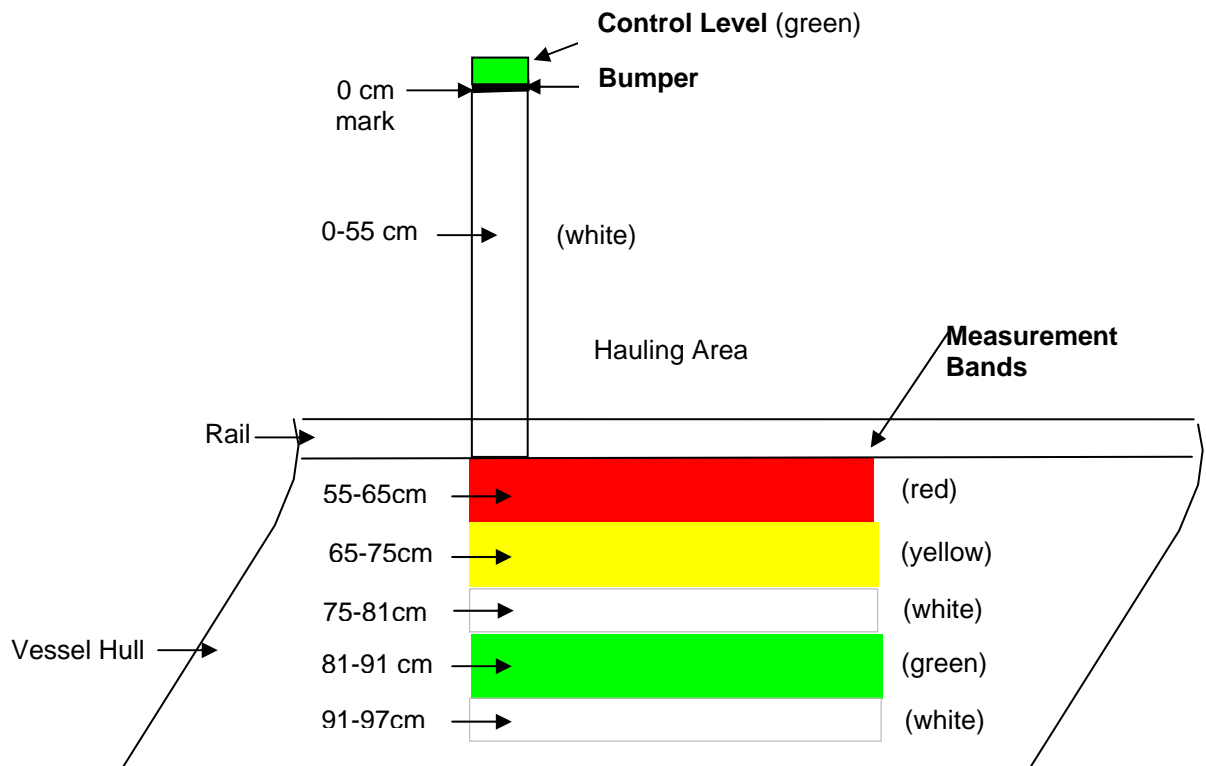


Figure 3. Measurement grid with infrastructure added for vessels without adequate freeboard.

### **3.7. Evaluation**

The performance of the service provider(s) in meeting the requirements of the EM program may be evaluated. Service providers failing to meet the minimum requirements outlined in this appendix may not be approved by DFO to perform those duties in subsequent years. Further, the EM requirements set out in this appendix will be subject to periodic review.

DFO is not responsible for third-party contracts or other arrangements between licence holders and service providers. It is the responsibility of licence holders to ensure that arrangements are in place for service providers to meet EM requirements.

As part of the evaluation process, DFO may assess performance against the requirements described in this document at various points within the fishing season. Feedback will be provided to the service provider(s) and licence holder representative(s). Any opportunities to improve performance will be documented during the first 8 months of the year. In the event that service providers are unable to reach a satisfactory level of performance in the EM program, they will be notified along with licence holder representative(s), prior to November 1, 2013 that DFO will not approve their company to provide EM services in 2014-15.

EM service provision evaluation criteria:

- Success of EM data collection,
- Processing and delivery of logbook information within the specified timeframes;
- Documentation of equipment deficiencies /failures and repair;
- Rate of equipment deficiencies /failures and timeliness of equipment repair;
- Timeliness, completeness, and accuracy of trip audit reports, occurrence reports, quota status reports, monthly reports, and year-end report;
- Preservation of accuracy, integrity, and confidentiality of EM data;
- Adherence to arm's length and insurance criteria;
- Attendance at meetings of the CIC EM subcommittee.

## **4. INTEGRATED GROUND FISH FISHING LOG**

An Integrated Groundfish Fishing Log (“fishing log”) will be available from Archipelago Marine Research Ltd. It is the responsibility of the vessel owner or master to ensure that the Integrated Groundfish Fishing Log be completed fully and accurately. The fishing log shall be updated prior to the landing or sale of groundfish taken during that fishing trip (see section 16 for examples).

The white copy of the completed pages of the fishing log will be collected by the groundfish dockside observer. When halibut has been landed, the yellow copy of the completed pages from the fishing log should remain in the logbook until removed by IPHC personnel or mailed within seven days of the vessel's last trip to:

International Pacific Halibut Commission  
2320 West Commodore Way, Suite 300  
Seattle, WA, United States

98199-1287

## **5. HAIL PROGRAM**

Prior to leaving port for a fishing trip, and prior to landing catch, the vessel masters must identify their intentions by way of hailing. Hail-out and hail-in reports may be made either via telephone, or electronically via the e-hail program, as described in the conditions of licence.

To hail via telephone, a vessel master shall contact the designated groundfish hail service provider, Archipelago Marine Research Ltd. (AMR), at 1-877-819-1888 (24 hours per day; seven days per week).

To participate in the e-hail program, a vessel master shall contact the designated electronic groundfish electronic hail service provider, Electric Edge Systems Group Inc. (Electric Edge), at 1-250-480-0642 or by e-mail at [info@electricedgesystems.com](mailto:info@electricedgesystems.com) (08:00 to 16:00, Monday to Friday) to inquire about costs and technical support.

The e-hails system consists of software that runs on an onboard computer, as well as a central, web-accessible portal that processes hails as they are received from vessels. E-hails provide a traceable electronic record of hail data and an automated confirmation of hails, with an accompanying hail-out number, which is e-mailed back to the vessel. Hails are not complete until a confirmation is received. Valid electronic hails are automatically forwarded to the designated dockside monitoring (DMP) service provider upon receipt.

### **5.1. E-hail System Requirements**

Any vessel using the electronic hail program must meet the following minimum specifications and component requirements:

- a) a personal computer with Windows XP or a later version of Windows operating system installed with the ability to send and receive e-mail; and
- b) e-mail sending and receiving capability via any of the following methods:
  - (i) “Skymate” satellite communications equipment and account; or
  - (ii) “Boatracs” satellite communications equipment and account; or
  - (iii) any dial-up or broadband (cellular, satellite, or land-based phone) connection; and
  - (iv) at least 100 megabytes of hard drive space available for the installation and operation of the electronic hail software.

## **6. BAIT**

Commercial fishers wishing to use licensed catch as bait may do so (with the exception of rockfish). All such catch must be accurately recorded in the Integrated Groundfish Fishing Log. Rockfish may not be used as bait but must be retained and landed. Pacific cod landings are subject to a trip limit, (refer to licence conditions for details), however, any amount of Pacific cod caught can be used for bait provided that the fish is recorded in the logbook.

Octopus caught incidentally may be retained and used for bait but cannot be landed and sold.

If a quota species is used as bait, the vessel will be assessed the average weight for that species (see Section 9).

## **7. DOCKSIDE MONITORING AND VALIDATION**

### **7.1. Hail-in**

Vessels must hail-in to the designated hail service provider prior to the landing of any fish. The landing of any species of fish can not commence unless a groundfish dockside observer is present and has given permission to commence the landing. All requests for dockside observer services will be handled as quickly as possible; however vessel masters are urged to provide as much advance notice as practical (e.g., 24 hours) to avoid delays. Response times will vary depending on many circumstances such as observer availability, time of hail and location of offload. Hail-in requirements are fully described in licence conditions.

### **7.2. Designated Landing Locations**

All hook and line and trap groundfish species shall be landed only at the approved landing ports listed in the licence conditions. To get an estimate of costs and rates for different landing locations, contact AMR.

### **7.3. Landing**

All fish landed must be separated, piece counted and weighed by individual species and by product type. The only exceptions to the piece count requirement are halibut, lingcod, dogfish and sablefish landed on directed trips.

Sub-sampling methods are set out in licence condition for species, (other than halibut and lingcod), where the landed weight is greater than 2,500 lbs.

All fish caught and retained must be landed at designated offloading locations and validated by a groundfish dockside observer using a dockside weight verification system. AMR is the designated service provider for this program, and will provide DFO designated groundfish dockside observers to verify individual vessel quota status. Specific requirements are included in conditions of licence.

The dockside monitoring program (DMP) is a cooperative process between vessel masters, processors and validators whereby all parties must work together to ensure the timely and accurate collection of catch landing data. Vessel masters are ultimately responsible to ensure the offload process meets the needs of all parties, in particular regarding piece counts. Should offload conditions (e.g. processing plant operations, lighting at the offload) inhibit the ability of the validator to conduct an accurate piece count, the observer is obliged to immediately bring this to the attention of both the plant foreman and the vessel master to have the issue resolved.

At the completion of an offload, vessel masters or a designate must review the validation record and sign off on the piece counts; acknowledging that piece counts are a key component of the audit process (Section 11). In the case where a discrepancy exists between the vessel master's count and the validation record, a recount may be requested.

Where a recount is carried out, it should be done in a way that minimizes impact and expense for the offloader. In those cases where the new counts are more than 5% out, AMR will not bill vessel for the extra time unless concerns regarding the validator's ability to carry out accurate piece counts were not addressed. If the recount of the species in question is completed and the new counts are within 5% of the original count, the costs of doing the extra time will be borne by the vessel and added to the Validation Record.

No fish may be offloaded at sea. No landing of any fish is to commence until a designated groundfish dockside observer is on-site and approves the commencement of the landing.

The observer will inspect fishholds, lazarettes, baitholds, and other areas where fish might be stored. After landing is completed, observer will inspect the fishholds, and the above-mentioned areas, to ensure that all fish on board have been landed. It is the responsibility of the vessel owner or master to provide safe access to the vessel's holds for inspection, and to ensure that the vessel does not leave the landing site prior to completion of the fishhold inspection by observer.

Once landing commences all product on-board are to be landed and weighed on a scale approved by either Industry Canada or the State of Washington Weights and Measures.

The groundfish dockside observer will verify and record in the Groundfish Validation Log the weights and, where required, the pieces of all fish landed. The observer will convert landed halibut weights to a net dressed, head-off weight. Rockfish and all other groundfish species will be converted to a round weight, using conversion factors set out in the conditions of licence.

The white copy of the completed pages from the Validation Record must remain with the groundfish dockside observer for subsequent keypunching and data entry. The yellow page must be delivered to the buyer or must accompany the load and be delivered to the buyer if the fish are trucked to the buyer.

The IPHC stock assessment is based on biological data obtained through port sampling, surveys and special projects. Since the 1930s, biologists have collected otoliths for ageing and lengths of fish. Under Section 48 of the *Fishery (General) Regulations*, the vessel master must make available for sampling any fish when requested by an authorized representative of the IPHC.

#### **7.4. Halibut Tagging**

All halibut landed in Canada including Canadian-caught halibut landed in the United States will be tagged. Under this program all halibut are tagged by the Department certified observer at the point of initial offloading with a unique serial number that will tie each fish to a particular offload. These numbers are recorded by the observer in the Validation Record completed for each landing.



The objectives of the program are twofold: to act as an enforcement tool to decrease the amount of illegally caught halibut entering the market, and to assist in marketing Canadian halibut as a distinct and high quality product.

### 7.5. Transport of validated fish

If the fish are to be transported to another location after landing, the vessel master should obtain a transit slip from the groundfish dockside observer, who will issue one transit slip for each vehicle or vessel transporting groundfish.

Vessels with validated fish onboard shall not engage in any commercial fishing until all validated fish have been removed from the vessel.

## 8. MORTALITY RATES

Vessels will be assessed mortality for legal/marketable sized fish released at-sea, for those species and areas for which a quota has been established. Mortality rates are set out below.

Gear		Lingcod	Sablefish	Dogfish	Rockfish	Halibut
Hook & Line	Jig	4%	15%	6%	100%	5%
Hook & Line	Longline	4%	15%	6%	100%	16%
Hook & Line	Troll	2%	15%	6%	100%	5%
Trap		4%	9%	6%	100%	10%

## 9. AVERAGE WEIGHTS

The mortality can be determined by calculating the mortality rate (as laid out above) by the predetermined average weights in pounds listed below. (For example a longline caught legal sized released halibut would be  $0.16 \times 21 \text{ lb.} = 3.4 \text{ lb.}$ )

Canary Rockfish	6	Quillback Rockfish	3	Shortspine Thornyhead	3
China Rockfish	3	Redbanded Rockfish	4	Silvergray Rockfish	5
Copper Rockfish	3	Rougeye Rockfish	4	Spiny Dogfish	9
Lingcod	12	Sablefish	8	Tiger Rockfish	3
Pacific Halibut	21	Shortraker Rockfish	9	Yelloweye Rockfish	7

Dogfish, Sablefish and ZN vessels that encounter halibut or lingcod as non-directed catch after their season closes will be responsible for the mortality of these species.

## 10. SIZE LIMITS

### **10.1. Halibut**

No person shall catch and retain a halibut that head on is less than 32 inches (81.3 cm), measured in a straight line, passing over the pectoral fin, from the tip of the lower jaw with the mouth closed to the extreme end of the middle of the tail or head off less than 24 inches (61.0 cm), measured in a straight line from the base of the pectoral fin at its most anterior point to the extreme end of the middle of the tail.

### **10.2. Lingcod**

No person shall catch and retain a lingcod that head on is less than 65 cm in length, measured from the tip of the nose to the tip of the tail or head off is less than 50 cm in length, measured along the shortest length of the body to the tip of the tail.

### **10.3. Sablefish**

No person shall catch and retain a sablefish that is less than 55 cm in length, measured from the tip of the nose to the fork of the tail or where the head has been removed, 39 cm in length measured from the origin of the first dorsal fin to the fork of the tail.

### **10.4. Dogfish-Unmarketable**

Dogfish that is less than 66 cm in length, may be released at-sea, and will not be deducted from IVQ holdings.

## **11. RESTRICTIONS**

It is unlawful to have Pacific halibut on board taken by recreational fishing if there are any other fish on board the vessel destined for commercial use.

## **12. FISHING LOG AUDIT**

At the time of landing the video and sensor data from the EM system will be removed from the EM system by the EM system service provider. Following every trip landing there will be an audit of the accuracy of the completed fishing log completed by a service provider approved by the Department. The audit uses the video data to confirm catch by species group, DMP piece counts to confirm retained catch, and the GPS and other sensor data to confirm location of fishing. Approved service providers for the audit will run a series of tests so that the following comparisons will be made:

- a) Fishing log total retained piece counts compared to DMP validation - to verify the accuracy of logbook with respect to landed and validated catch.
- b) Fishing log piece counts compared to EM Video - to compare the observed catches and releases against the fishing log record. Ten percent (10%) of all sets per trip (minimum 1 set) will be randomly selected for video review.
- c) Fishing log set start location, time, date and total number of fishing events compared to EM sensor data – to verify the accuracy of the logbook in relation to time, date and area of catch and number of fishing events.

- d) All test results produced from the audit are combined in a weighted average to produce a trip score to provide a single value ranging from 0 ('poor') through 10 ('good') to describe general audit results.
- e) Trip scores will be considered cumulatively in determining a vessel's annual score. Annual scores, ranging in value from 0 ('poor') through 10 ('good'), are determined by averaging a vessel's trip scores accrued over the past calendar year (i.e. irrespective of season) to provide a sense of a vessel's audit history.

After the audit is complete, the logbook and the DMP together form the official trip record.

Audits that are not within acceptable range may result in the following:

- a) Letters identifying unsuccessful tests, requests for additional information to explain discrepancies, and a delay in receiving catch details;
- b) Additional time required to resolve and correct fishing trip data at additional cost to the vessel;
- c) Complete (100%) review of all EM imagery data at additional cost to the vessel; and
- d) Catch detail being based on EM data rather than logbook data.
- e) Requirement to take an at-sea observer.

### **13. QUOTA STATUS REPORT**

Following the completion of each offload and subsequent audit, the designated EM data analysis service provider will reconcile all catch information; both landed and discarded, versus current quota holdings and produce a quota status report (QSR). The QSR will be forwarded to the identified contact for the vessel. Vessel masters should be advised that it can take up to 5-7 days for completion of a QSR.

There may be a one trip allowance for vessels to clear excess overages for non-directed catch. Vessels that remain in an overage position for any species area group will be restricted from further fishing activity for that fishery for the remainder of the fishing year, or until such time that sufficient quota holdings are reallocated to the licence to cover any overages.

#### **14. FISHER IDENTIFICATION NUMBERS**

DFO has introduced unique Fisher Identification Numbers (FIN) that will be assigned to all Pacific commercial harvesters. Once a FIN has been assigned to a fisher, that individual will reference the FIN when identifying him or herself in subsequent business dealings with both the department and service contractors, completing the FIN field on logbooks, noting the FIN when hauling and landing catch, etc. A FIN will be automatically generated for fishers when their new year's FRC licence is issued. Once the FIN is issued to a fish harvester it will not change from year to year.

#### **15. FISH SLIPS**

Vessel Masters must obtain copies of all fish slips from fish buyers and keep available copies when required by the Department. Vessel masters are required to ensure fish slip records are mailed directly to the Department no later than seven days after landing. Fish slips must be mailed to:

Fisheries and Oceans Canada  
Regional Data Unit  
Suite 200 - 401 Burrard Street  
Vancouver, B.C. V6C 3S4

Any fishers selling fish to the public are reminded that they must obtain a Fish Vending Licence, available from any provincial government agent, and as licensed vendors they will be required to record all public fish sales on fish slips.

# 16. INTEGRATED GROUND FISH FISHING LOGBOOK

## 16.1 Example logbook page for trap gear

YEAR: 2012 INTEGRATED GROUND FISH FISHING LOGBOOK 30

Vessel: <u>GROUND FISHER</u>				FTCN: <input type="checkbox"/>				DATE: _____													
VRN: <u>299999</u>				GEAR ID		Gear Type		Length of Skate (in feet)		HOOK/TRAP		ESCAPE RING									
Captain: <u>JOE SMITH</u>										Type	Size	Spacing (feet)	# per skate	# per trap	Diameter (inches)	Config.					
FIN: <u>123456</u>		# of Crew: <u>4</u>		Trip #: <u>2</u>		A		TRAP		K		48		150		2		3 3/8		SS1	
Tab #1: <u>K99</u>		Tab #2: _____		B		C		D		D		D		D		D		D		D	
Hail Out #(s): <u>32700332/</u>				Target Species: <u>SABLE FISH</u>				Bait Spp. <u>HAKE</u>				Spp. Wt. <u>10</u>									
Hail In #(s): <u>32700339/</u>				Bait Spp. <u>SQUID</u>				Spp. Wt. <u>2</u>													

Set/Haul	Set #	Haul #	Set/Haul	Set #	Haul #
Gear/Skate Details	ID <u>A</u>	# Set <u>55</u>	# Lost <u>0</u>	Gear/Skate Details	ID <u>A</u>
Catch Area (GMU)	<u>5D</u>		Catch Area (GMU)	<u>5D</u>	
Set Start Date/Time	(mm/dd) <u>11/23</u>	(hh:mm) <u>11:00</u>	Set Start Date/Time	(mm/dd) <u>11/23</u>	(hh:mm) <u>13:15</u>
Haul Start Date/Time	(mm/dd) <u>11/24</u>	(hh:mm) <u>18:45</u>	Haul Start Date/Time	(mm/dd) <u>11/24</u>	(hh:mm) <u>22:00</u>
Haul End Date/Time	(mm/dd) _____	(hh:mm) _____	Haul End Date/Time	(mm/dd) _____	(hh:mm) _____
Set Start Lat	<u>5413.75</u>		Set Start Lat	<u>5415.61</u>	
Set Start Long	<u>13047.82</u>		Set Start Long	<u>13101.12</u>	
Set End Lat	<u>5413.62</u>		Set End Lat	<u>5415.09</u>	
Set End Long	<u>13048.05</u>		Set End Long	<u>13103.57</u>	
Depth in fathoms	Start <u>142</u>	Min <u>139</u>	Depth in fathoms	Start <u>248</u>	Min <u>245</u>
	End <u>165</u>	Max <u>170</u>		End <u>262</u>	Max <u>260</u>

Species Name	Retained			Released			Species Name	Retained			Released		
	Weight	Pieces	Bait	Weight	Pieces	Liced		Weight	Pieces	Bait	Weight	Pieces	Liced
Halibut - Legal							Halibut - Legal				<u>30</u>	<u>1</u>	
Halibut - Sub-L	/	/	/				Halibut - Sub-L	/	/	/			
Sablefish - Legal	<u>1000</u>	<u>236</u>					Sablefish - Legal	<u>1150</u>	<u>268</u>				
Sablefish - Sub-L	/	/	/	<u>200</u>	<u>30</u>		Sablefish - Sub-L	/	/	/	<u>65</u>	<u>5</u>	
Lingcod - Legal							Lingcod - Legal						
Lingcod - Sub-L	/	/	/				Lingcod - Sub-L	/	/	/			
Dogfish - Mark.							Dogfish - Mark.						
Dogfish - UnMark.							Dogfish - UnMark.						
Species Name	Pieces	Bait	Pieces	Liced	Species Name	Pieces	Bait	Pieces	Liced				
Yelloweye					Yelloweye								
Quillback					Quillback								
Rougheye	<u>37</u>				Rougheye	<u>5</u>							
SS Thornyhead			<u>0</u>	<u>1</u>	SS Thornyhead								
Redbanded					Redbanded	<u>3</u>							
Big Skate					Big Skate								
Longnose Skate			<u>1</u>		Longnose Skate								
Turbot			<u>8</u>		Turbot			<u>29</u>					
Pacific Cod					Pacific Cod								

Tagged Fish/Tag #(s): A00450265 Sablefish A0040477 Sablefish

IPHC USE: \_\_\_\_\_ Collected by: \_\_\_\_\_

Comments: \_\_\_\_\_

White copy - Observer Yellow copy - IPHC Pink copy - Captain

Page \_\_\_\_\_ of \_\_\_\_\_

16.2 Example logbook page for long-line gear

YEAR: **2012** INTEGRATED GROUND FISH FISHING LOGBOOK 30

Vessel: GROUND FISH #1		FTCN: <input type="text"/>		DATE: <input type="text"/>	
VRN: 12356					
Captain: ROB SMITH.					
FIN: 54321	# of Crew: 4	Trip #: 13			
Tab #1: L001	Tab #2: K09				
Hail Out #(s): 32900970 / 32700229					
Hail In #(s): 32901046 / 32700252					
Target Species: HALIBUT/SABLEFISH					
Bait Spp. SQ	Spp. Wt. 8				
Bait Spp. HD	Spp. Wt. 8				

GEAR ID	Gear Type	Length of Skate (in feet)	HOOK/TRAP				ESCAPE RING		
A	SNAP	1850	Type BC	Size 14	Spacing (feet) 10	# per skate 200	# per trap	Diameter (inches)	Config.
B									
C									
D									

Set/Haul	Set #	Haul #	Set/Haul	Set #	Haul #
Set/Haul	1	4	Set/Haul	2	2
Gear/Skate Details	ID A # Set 3 # Lost		Gear/Skate Details	ID A # Set 4 # Lost	
Catch Area (GMU)	5C		Catch Area (GMU)	5A	
Set Start Date/Time	(mm/dd) 04/22 (hh:mm) 06:13		Set Start Date/Time	(mm/dd) 04/24 (hh:mm) 15:21	
Haul Start Date/Time	(mm/dd) 04/22 (hh:mm) 13:56		Haul Start Date/Time	(mm/dd) 04/25 (hh:mm) 18:22	
Haul End Date/Time	(mm/dd)		Haul End Date/Time	(mm/dd)	
Set Start Lat	5226.28		Set Start Lat	5110.10	
Set Start Long	13051.35		Set Start Long	12930.50	
Set End Lat	5232.19		Set End Lat	5108.06	
Set End Long	13050.00		Set End Long	12940.10	
Depth in fathoms	Start 44 Min 33		Depth in fathoms	Start 100 Min 80	
	End 60 Max 64			End 120 Max 120	

Species Name	Retained			Released			Species Name	Retained			Released		
	Weight	Pieces	Bait	Weight	Pieces	Liced		Weight	Pieces	Bait	Weight	Pieces	Liced
Halibut - Legal	600	28				4	Halibut - Legal	100	4				
Halibut - Sub-L	/	/	/				Halibut - Sub-L	/	/	/			
Sablefish - Legal				5			Sablefish - Legal	1000	125				
Sablefish - Sub-L	/	/	/				Sablefish - Sub-L	/	/	/	200	30	
Lingcod - Legal	100	10					Lingcod - Legal						
Lingcod - Sub-L	/	/	/				Lingcod - Sub-L	/	/	/			
Dogfish - Mark.							Dogfish - Mark.					13	
Dogfish - UnMark.							Dogfish - UnMark.						
Species Name	Pieces	Bait	Pieces	Liced	Species Name	Pieces	Bait	Pieces	Liced				
Yelloweye	17				Yelloweye								
Quillback					Quillback								
Rougheye	3				Rougheye	13							
SS Thornyhead					SS Thornyhead								
Redbanded					Redbanded	10							
Big Skate			3		Big Skate			10					
Longnose Skate					Longnose Skate								
Turbot		10			Turbot								
Pacific Cod	15	2			Pacific Cod								
Canary	4				Shortraker	26			2				

Tagged Fish/Tag #(s): Sablefish A00731637, A00744833

IPHC USE:  Collected by:

Comments: STRONG N.W. WIND.

**Appendix 3: Schedule II – Other Groundfish Species Commercial Harvest Plan**

**TABLE OF CONTENTS**

1.	MANAGEMENT UPDATES & CHANGES FOR 2014/2015 .....	2
1.1.	In-Season Changes/Updates.....	2
1.2.	Species of Interest Program Continuation .....	2
1.3.	Discontinuation of Season Extension .....	2
1.4.	At-Sea Observers and Electronic Monitoring.....	2
1.5.	Licensing Service Changes – Effective in 2014 .....	3
1.6.	Big skate and Longnose skate allocation process .....	4
1.7.	Continuation of Pilot Bocaccio Rebuilding Measures.....	4
1.8.	Logbook Effort Reporting Reminder.....	4
1.9.	Area Coordinate Formats in the IFMP.....	5
2.	SPECIES .....	5
3.	GEAR .....	5
4.	LICENSING.....	5
4.1.	Licence Category .....	5
4.2.	Licence Fees.....	5
4.3.	Licence Application and Issuance .....	6
4.4.	Licence Amendments and Documents.....	6
4.5.	Open Times.....	6
5.	LINGCOD INDIVIDUAL TRANSFERABLE QUOTAS (ITQ).....	6
5.1.	Species Area Groups.....	6
5.2.	Annual ITQ Caps .....	6
5.3.	Trip Limits .....	8
5.4.	Fishing Restrictions for ITQ Excess Overage .....	8
5.5.	Rules for Carryover of ITQ Overage and Underage.....	8
5.6.	Research Allocation.....	9
5.7.	Retention of Lingcod by Salmon Troll .....	9
6.	DOGFISH INDIVIDUAL TRANSFERABLE QUOTAS (ITQ) .....	10
6.1.	Species Area Groups.....	10
6.2.	Dogfish Development Quota (DDQ) .....	10
6.3.	Annual ITQ Caps .....	10
6.4.	Trip Limits .....	12
6.5.	Fishing Restrictions for ITQ Excess Overage .....	12
6.6.	Rules for Carryover of ITQ Overage and Underage.....	13
7.	REALLOCATION PROCEDURES .....	14
7.1.	Reallocation of Directed and Non-Directed Species ITQ.....	14
8.	DUAL FISHING .....	15
9.	CLOSURES .....	16
9.1.	Strait of Georgia Sponge Reef Voluntary Avoidance Measures .....	16
9.2.	Rockfish Conservation Areas .....	16
9.3.	Gwaii Haanas National Marine Conservation Area.....	16
9.4.	Permanent Closures .....	17
9.5.	Year-Round Closures.....	18
9.6.	Seasonal Closures .....	20

## **1. MANAGEMENT UPDATES & CHANGES FOR 2014/2015**

### **1.1. In-Season Changes/Updates**

In-season updates are available on the Fishery Notice website at: [http://www-ops2.pac.dfo-mpo.gc.ca/xnet/content/fns/index.cfm?pg=search\\_options&lang=en&id=commercial](http://www-ops2.pac.dfo-mpo.gc.ca/xnet/content/fns/index.cfm?pg=search_options&lang=en&id=commercial).

In-season Sector Catch and Sector Cap summaries are updated daily and can be found at: <http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/index-eng.htm>

### **1.2. Species of Interest Program Continuation**

The species of interest pilot program, which started in 2011, aimed to provide harvesters feedback on how well the commercial groundfish integrated logbook is being completed for skates, seabirds, marine mammals, and sharks. During the pilot program, harvesters have made improvements in the accurate recording of skates; however a continued improvement on the recording of sharks, mammals, and seabirds is required. Beginning in the 2013/2014 season, Big Skate and Longnose Skate were incorporated into the testable portion of logbook audits (i.e., reporting of these two species of interest will impact audit trip scores and could result in a 100% review of fishing trips if misreported). Other species of interest (sharks, marine mammals, and seabirds) will continue to be tested in the Species of Interest section of the logbook audit, and misreporting of these species will be reported to individual harvesters and the Department's Electronic Monitoring Audit Review Board. Accurate reporting of all shark, mammal, and seabird encounters is required to assess the impact of fisheries on these species. Please ensure skippers and crew are aware of this program.

### **1.3. Discontinuation of Season Extension**

As in 2012 and 2013, fishing season extensions beyond the regular commercial season closing date of February 20, 2015, will not be available.

### **1.4. At-Sea Observers and Electronic Monitoring**

Beginning April 1, 2013, DFO determined it would no longer share the costs of the at-sea observer or electronic monitoring programs. The commercial groundfish fishing industry will now enter directly into contracts with at-sea observer service providers that are certified by the Canadian General Standards Board and designated by DFO. Interested companies will apply to the Canadian General Standards Board to become certified, and then, to the Department to become designated as a service provider for at-sea observer services beginning on April 1, 2013. Industry will also enter directly into contracts with electronic monitoring service providers that are approved by the Department as meeting the requirements for the provision of electronic monitoring services set out in the groundfish licence conditions and Appendix 2 of the groundfish IFMP.



### **1.5. Licensing Service Changes – Effective in 2014**

Fisheries and Oceans Canada (DFO) introduced the web-based National Online Licensing System (NOLS) in the spring of 2013. This web-based system replaces in-person counter service at Pacific Fishery Licensing Units. Fish harvesters/Licence Holders/vessel owners will now use the new online system to view, pay for and print their commercial fishing licences, licence conditions and/or receipts.

Fish harvesters must log into the National Online Licensing System to register and activate their accounts using the DFO Passcode that has been mailed to them in order to pay the fees and request issuance of a licence.

Licence renewal and payment of fees are mandatory on an annual basis prior to the expiry date of each fishery in order to maintain eligibility in the future. Licence eligibility will cease if not renewed annually.

In early 2014, the need to submit the applicable forms will continue to be necessary where a designated vessel is required. The applicable forms will not be sent to Schedule II Species vessel owners, however, they will be provided to communal commercial licence eligibility holders by mail and the payment required to be processed through the National Online Licensing System.

Upon the Department receiving the required payment, applicable documentation and information, the licence will be issued and notification will be sent via email to advise Licence Holders/vessel owners that a change has been made to the licence holder's online account. The licence documents, licence conditions and receipt will be available to be printed at that time.

Later in 2014, a “request” feature to collect designated vessel details will be available through the National Online Licensing System and the applicable forms once necessary, will no longer be required. Schedule II Species licence eligibility holders will then need to submit the designated vessel information online. Until such time, licence holders will continue to submit the necessary form to the Pacific Fishery Licence Unit while making the fee payments through the National Online Licensing System.

For transactions that are not yet available in the National Online Licensing System (e.g. Vessel replacements and nominations), licensing services will continue to be available either through telephone (1-877-535-7307), e-mail ([fishing-peche@dfo-mpo.gc.ca](mailto:fishing-peche@dfo-mpo.gc.ca)), or fax (604-666-5855).

Please be sure to visit the Pacific Region Licensing website and subscribe to fishery notices for updates on the National Online Licensing System and licensing services: <http://www.pac.dfo-mpo.gc.ca/fm-gp/licence-permis/index-eng.html>.

Information on the new system may be found on the DFO internet site at: <http://www.dfo-mpo.gc.ca/fm-gp/sdc-cps/licence-permis-eng.htm>.

#### **1.6. Big skate and Longnose skate allocation process**

Consistent with the Department's direction of explicit and transparent allocations and to further promote stewardship of skate species, formal discussions between the DFO and commercial groundfish fishery sectors were initiated in 2013 to change the commercial skate fishery management and to formulate sector allocations for Big and Longnose skate. As result of DFO's initiation of these discussions all commercial skate fishers are hereby notified that catches of Big and Longnose Skate occurring in the 2013 fishing season and beyond will not be used when determining future groundfish sector catch allocations.

This action is taken to reduce the impact of speculative fishing that may occur as a result of discussions on sector allocations and management measures for both skate species. Advice on final sector allocations and new management measures will be formulated through extensive consultations with fishing interests.

#### **1.7. Continuation of Pilot Bocaccio Rebuilding Measures**

Based on updated science information, the Department introduced bocaccio catch reduction targets from 2012 catch levels of approximately 137 tonnes (inclusive of trawl, groundfish hook and line, salmon troll, and recreational sectors) to 75 tonnes over a three year period, in order to support stock rebuilding. In November 2013, the Committee On The Status Of Endangered Wildlife In Canada (COSEWIC) reassessed Bocaccio and recommended it for listing under the Species At Risk Act as "endangered".

Beginning in 2013/2014, the lingcod and dogfish fishery was subject to trip limits specifically for bocaccio; these will remain in place for 2014/15. The Commercial Industry Caucus, an advisory body with representatives from all commercial groundfish fleets, has also supported a voluntary relinquishment program for the proceeds of bocaccio catch in the groundfish hook and line fleets, similar to that in place for the trawl fleet. The Department will continue to review the efficacy of these pilot measures at the end of each fishing season and consider any additional measures necessary to support stock rebuilding. Please refer to conditions of licence, section 9.1.5 of the IFMP, and section 5.3 and 6.4 of this harvest plan for further information.

#### **1.8 Logbook Effort Reporting Reminder**

Effort data within the commercial groundfish integrated logbook is often incomplete or captured inaccurately. Please be advised that accurate recording of fishing effort in logbooks is a condition of licence and logbook data is an important component for assessment of stocks. Please ensure that "GEAR ID" and "Gear/Skate Details" fields are accurately completed by following instructions provided in the groundfish integrated logbook instructions.

## 1.9. Area Coordinate Formats in the IFMP

Area coordinates throughout the IFMP (e.g., Groundfish Management Areas, Rockfish Conservation Areas, Marine Protected Areas, etc.) may be provided in several different formats. The format provided in the IFMP is typically consistent with the format provided in the regulation describing the specified area. You are reminded that it is the responsibility of the vessel master to ensure the correct coordinate format is used during navigation and in navigation software.

## 2. SPECIES

Lingcod (*Ophiodon elongates*)

Spiny Dogfish (*Squalus suckleyi*)

Rockfish (*Sebastes sp.*) and Longspine/Shortspine Thornyheads (*Sebastolobus sp.*)

Halibut (*Hippoglossus stenolepis*)

Sablefish (*Anoplopoma fimbria*)

Skate (*Rajidae*)

Sole and Flounder (*Pleuronectiformes* other than *Hippoglossus stenolepis*)

Pacific cod (*Gadus macrocephalus*)

## 3. GEAR

Fishing for Schedule II – Other Species is permitted by hook and line gear, specifically longline, jig, and troll. When conducting a directed Lingcod trip only troll and jig gear is permitted; directed fishing for Lingcod with longline gear is not permitted.

## 4. LICENSING

### 4.1. Licence Category

A Schedule II species, category C, communal commercial category FC or any vessel based licence is required to commercially harvest Schedule II - Other Species.

“Schedule II” refers to Schedule II, Part II of the *Pacific Fishery Regulations, 1993*. Category C, Schedule II - Other Species licence eligibilities are limited entry and vessel based. Category FC licence eligibilities are limited entry and party based.

Vessels fishing under the authority of a Schedule II-Other Species licence may also be designated to fish under the authority of a category Z licence.

### 4.2. Licence Fees

Category C licence fees are \$30.00. There is no annual licence fee for communal commercial licences.

#### **4.3. Licence Application and Issuance**

Category C licence eligibilities must be applied for and issued annually regardless of whether or not fishing is carried out.

The communal commercial schedule II species licence eligibility holder or an authorized representative must sign the applicable form. The PFLU must have on record a copy of a Confirmation of Signing Authorities form listing the signing authorities associated with the aboriginal group.

Prior to annual licence issuance, vessel owners/licence eligibility holders are required to:

- a) Meet any Ministerial conditions placed on the licence eligibility.
- b) Ensure any conditions of the previous year's licence such as completion and submission of fishing logbooks is met and accepted by the Groundfish Management Unit (GMU).

#### **4.4. Licence Amendments and Documents**

Prior to commencing to harvest under the authority of a category C, Schedule II – Other Species licence the licence eligibility holder or an authorized representative must request and receive a 2014/2015 licence amendment from the Groundfish Management Unit. Licence Amendment Request Forms are available from the Pacific Fishery Licencing Units, or online at: <http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/form-eng.htm>

Schedule II Species licence documents are valid from the date of issue to February 20, 2015. Replacements for lost or destroyed licence documents may be obtained by reprinting your licence documents through the National Online Licensing System.

#### **4.5. Open Times**

With the exception of those seasonal and permanent closures noted in this plan, or closures announced in-season, the Schedule II species fishery will be open from February 21, 2014 to February 20, 2015. On April 1, 2014, retention of lingcod will be permitted in management areas 3C, 3D, 5A, 5B, 5C, 5D and 5E. Retention of lingcod by hook and line gear in management area 4B will be permitted on May 1, 2014 and only in sub-Areas 12-1 to 12-13 and 12-15 to 12-48. From November 15, 2014 until March 31, 2015 a spawning closure for the retention of lingcod by hook and line gear will be in effect for all areas.

### **5. LINGCOD INDIVIDUAL TRANSFERABLE QUOTAS (ITQ)**

#### **5.1. Species Area Groups**

Lingcod will be managed by the following management areas: 3C, 3D, 5A/B, 5C/D/E and 4B. ITQ may not be re-allocated from one area to another.

#### **5.2. Annual ITQ Caps**

5.2.1. TAC Holdings Permanent Quota Cap

All Schedule II licences will have annual ITQ caps for permanent quota. The total amount of permanent quota holdings may not exceed the quota caps listed below.

<b>Species</b>	<b>Areas</b>	<b>TAC Holdings Cap (pounds)</b>
Lingcod	3C	16,535
Lingcod	3D	39,683
Lingcod	5A, 5B	22,046
Lingcod	5C, 5D, 5E	46,296
Lingcod	Coastwide	74,736

5.2.2. Licence Species Temporary and Permanent Quota Caps (Directed Species)

All Schedule II licences will have annual ITQ caps for some of their directed and non-directed catch. A licence may only hold up to a maximum of 10% of the area TAC for Lingcod, and up to a maximum of 5% of the overall TAC for Lingcod. Temporary and permanent reallocations will be permitted up to the species caps listed below.

<b>Species</b>	<b>Areas</b>	<b>Licence Species Cap (pounds)</b>
Lingcod	3C	33,069
<i>Lingcod</i>	3D	79,365
Lingcod	5A, 5B	44,092
Lingcod	5C, 5D, 5E	92,593
Lingcod	Coastwide	124,560

5.2.3. Quota Holdings Caps (Non-Directed Species)

<b>Species</b>	<b>Areas</b>	<b>Quota Holdings Cap (% of Lingcod ITQ)</b>
Canary rockfish	Coastwide	2.00
Spiny Dogfish	Coastwide	1.00
Halibut	Coastwide	15.00
Silvergray rockfish	Coastwide	2.00
Quillback, Copper, China and Tiger rockfish	Coastwide	2.00
Yelloweye rockfish	Coastwide	4.00
Redbanded rockfish	Coastwide	2.00

#### 5.2.4. Sector Holdings Caps

A licence may hold up to 25% Lingcod quota from the Trawl sector, as a percentage of the licence's total coastwide Lingcod holdings.

### 5.3. Trip Limits

While hailed out on a directed Lingcod (Schedule II) fishing trip, the following trip limits apply for species listed in the table below:

Species	Trip Limit (pounds)	
Pacific Cod	500	
Skate	6,000	
Other Rockfish (as set out in Appendix 1 in the conditions of licence)	500 (under 10,000 lbs of Lingcod landed) 750 (greater than 10,000 lbs of Lingcod landed)	
Sole and Flounder	No limit	
Bocaccio	Landings (round weight) per trip may not exceed:	
	200 pounds where 15,000 pounds or less of lingcod is landed	200 pounds plus 1% of the amount of lingcod landed in excess of 15,000 pounds, to a maximum of 600 pounds of Bocaccio

### 5.4. Fishing Restrictions for ITQ Excess Overage

Licences that exceed their total Lingcod ITQ holdings by area by more than 10% or 100 pounds (whichever is greater) will be restricted from fishing for the remainder of the fishing year, or until such time that sufficient ITQ is reallocated to the licence to cover excess overages.

Licences that exceed their total non-directed ITQ holdings by area by more than 30% or 100 pounds (whichever is greater) will be restricted from fishing for the remainder of the fishing year, or until such time that sufficient ITQ is reallocated to the licence to cover any excess overages.

Licences with catch that exceeds their annual ITQ species caps will be restricted from fishing for the remainder of the fishing season.

Licenses that do not reconcile excess overages by February 20, 2015, will carry excess overages into the new season (see section 5.6.2). If a licence remains in excess overage following initial allocations of ITQ, the licence will be restricted from fishing until temporary reallocations for the 2015/2016 season are processed in mid-March, 2016.

### 5.5. Rules for Carryover of ITQ Overage and Underage

#### 5.5.1. Carryover of Directed and Non-Directed ITQ Underage

Licences will be permitted to carryover uncaught ITQ up to 30% of their total directed or non-directed species (except Sablefish and dogfish) ITQ by area at the end of the 2014/2015. This amount includes any reallocations made during the year. The amount of underage will be added to the licence’s ITQ holdings in 2015/2016. Any amount above the 30% will be forgone.

For Sablefish, licences will be permitted to carryover uncaught ITQ up to 15% of their Sablefish ITQ by area at the end of the 2014/2015 fishing season.. This amount includes any reallocations made during the year. Underage amounts will be added to the licence’s ITQ holdings in 2015/2016. Any amount above the 15% will be forgone.

For dogfish, licences will be permitted to carryover uncaught ITQ up to 10% of their dogfish ITQ by area at the end of the 2014/2015 fishing season. This amount includes any reallocations made during the year. The amount of underage will be added to the licence’s ITQ holdings in 2015/2016. Any amount above the 10% will be forgone.

**5.5.2. Carryover of Lingcod and Non-Directed ITQ Overage**

A licence’s catch may be up to 10% over the total Lingcod ITQ (this amount includes any reallocations made during the year) or 100 pounds, whichever is greater. For the proper conservation and management of the resource, the amount of the overage will be deducted from the licence’s ITQ in the 2015/2016 fishing season and will count against the annual vessel cap for the following season.

A licence’s catch may be up to 30% over the total non-directed species ITQ (this amount includes any reallocations made during the year) or 100 pounds, whichever is greater. For the proper conservation and management of the resource, the amount of the overage will be deducted from the licence’s ITQ in the 2015/2016 fishing season and will count against the annual vessel cap for the following season.

**5.6. Research Allocation**

The Hook and Line Groundfish Association have agreed to set aside a portion of the lingcod commercial allocation in order to support the 2014 synoptic rockfish survey. The table below indicates the amount of lingcod allocated for the survey.

Lingcod	Groundfish Management Area	Allocation (pounds)
	3C	400
	3D	5,150
	5AB	3,350
	5CD	150

**5.7. Retention of Lingcod by Salmon Troll**

All vessels wishing to retain any amount of Lingcod must have their fish validated through the established dockside monitoring program. In addition to this, any vessel wishing to land Lingcod must hold or acquire sufficient quota to do so.

Requirements include the following (less than 500 lbs of Lingcod per landing):

- Vessel must have sufficient ITQ
- Transportation requirement – All Lingcod must be transported by the licensed vessel either directly to land or to a fish pen
- Hail in and Hail out requirements through the designated service provider
- Specific locations and times at which landing of fish is permitted
- Landing requirements – The landing of any fish of any species is not permitted unless a designated observer is present to authorize the commencement of weight verification.

Vessels wishing to retain and land **more than 500 lbs** of Lingcod per landing must, in addition to all of the above, meet the electronic monitoring requirements (see Appendix 2).

## **6. DOGFISH INDIVIDUAL TRANSFERABLE QUOTAS (ITQ)**

### **6.1. Species Area Groups**

Dogfish will be managed by the following management areas: 3C/D, 5A/B/C/D/E and 4B. ITQ may not be re-allocated from one area to the other.

### **6.2. Dogfish Development Quota (DDQ)**

The remaining 10% of the dogfish TAC will be made available to fish harvesters through a Dogfish Development Quota (DDQ). The purpose of the DDQ is to ensure the continued viability and ongoing development of the dogfish industry.

The DDQ will continue for the 2014/2015 fishing season, however, further discussions between the Department and the dogfish commercial sector will continue in 2014.

The application process requires interested dogfish processors to submit a joint application between their company and the licensed vessel(s) interested in fishing the dogfish quota. Application packages and further information on the DDQ process are available online at: <http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/dogfish-aiguillat/index-eng.htm>

### **6.3. Annual ITQ Caps**

#### **6.3.1. TAC Holdings Permanent Quota Caps**

All Schedule II licences will have annual TAC holding caps for permanent quota. The total amount of permanent quota a licence may hold will not exceed the holding caps listed below.



<b>Species</b>	<b>Areas</b>	<b>TAC Holdings Cap (pounds)</b>
Dogfish	3C,3D,5A,5B,5C,5D,5E	600,670
Dogfish	4B	100,111

### 6.3.2. Licence Species Temporary and Permanent Quota Caps (Directed Species)

All Schedule II licences will have annual ITQ caps for some of their directed and non-directed species. Temporary and permanent reallocations combined up to the species caps listed below will be a permitted.

<b>Species</b>	<b>Areas</b>	<b>Licence Species Cap (pounds)</b>
Dogfish	Coastwide	1,500,000*

\*Vessels whose initial quota allocation exceeds this amount will be allowed to hold ITQ up to the initial allocation.

### 6.3.3. Quota Holdings Caps (Non-Directed Species)

<b>Species</b>	<b>Areas</b>	<b>Quota Holdings Cap (% of Dogfish ITQ)</b>
Canary rockfish	Coastwide	0.50
Halibut <sup>†</sup>	Coastwide	5.80
Lingcod	Coastwide	3.00
Rougheye rockfish	Coastwide	0.50
Sablefish	Coastwide	1.00
Silvergray rockfish	Coastwide	0.50
Shortraker rockfish	Coastwide	0.08
Shortspine Thornyhead	Coastwide	1.00
Quillback, China, Copper and Tiger rockfish	3C, 3D, 5A, 5B, 5C, 5D, 5E	0.50 (of dogfish coastwide ITQ)
Quillback, China, Copper and Tiger rockfish	4B	0.25 (of dogfish 4B ITQ)
Yelloweye rockfish	3C, 3D, 5A, 5B, 5C, 5D, 5E	0.50 (of dogfish coastwide ITQ)
Yelloweye rockfish	4B	1.00 (of dogfish 4B ITQ)
Redbanded rockfish	Coastwide	2.00

<sup>†</sup> Halibut is also capped by a Quota Landings cap. A licence will be limited by the most restrictive cap.

### 6.3.4. Quota Landings Caps (Non-Directed)

Species	Areas	Quota Landings Cap (pounds)		
Halibut °	Coastwide	23,000 if < 200,000 lbs dogfish landed	46,000 if < 400,000 lbs dogfish landed	
Yelloweye*	3C, 3D , 5A, 5B, 5C, 5D, 5E	2,000 if < 250,000 lbs of dogfish landed	3,000 if < 600,000 lbs of dogfish landed	4,000 if < 800,000 lbs of dogfish landed <sup>†</sup>

°Halibut is also capped by a Quota Holdings cap. A licence will be limited by the most restrictive cap.

\*Yelloweye is also capped by a Quota Holdings cap of 0.5%. A licence will be limited by the most restrictive cap.

†Reallocations can continue to occur in blocks up to 1,000 lbs for every 200,000 lbs of dogfish landed, up to a total of 1,500,000 lbs of dogfish landed.

#### 6.4. Trip Limits

For non-directed species of groundfish caught while fishing dogfish the following trip limits will apply:

Species	Trip Limit (pounds)		
Sablefish	15% of dogfish landed per trip		
Halibut  *subject to the halibut fishery being open	30% of dogfish landed per trip during the following times*: <ul style="list-style-type: none"> <li>• March 17 – June 15, 2014</li> <li>• September 15 – November 7, 2014</li> </ul> 20% of dogfish landed per trip during the following times*: <ul style="list-style-type: none"> <li>• June 16 – September 14, 2014</li> <li>• November 8, 2014 – February 20, 2015</li> </ul>		
Pacific Cod	500		
Skate	6,000		
Lingcod (4B)	400		
Other Rockfish (as set out in Appendix 1 of the conditions of licence)	Greater of 500 lbs or 2% of dogfish landed per trip		
Sole and Flounder	No limit		
Bocaccio	Landings (round weight) per trip may not exceed: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">200 pounds where 15,000 pounds or less of dogfish is landed</td> <td style="width: 50%;">200 pounds plus 1% of the amount of dogfish landed in excess of 15,000 pounds, to a maximum of 600 pounds of Bocaccio</td> </tr> </table>	200 pounds where 15,000 pounds or less of dogfish is landed	200 pounds plus 1% of the amount of dogfish landed in excess of 15,000 pounds, to a maximum of 600 pounds of Bocaccio
200 pounds where 15,000 pounds or less of dogfish is landed	200 pounds plus 1% of the amount of dogfish landed in excess of 15,000 pounds, to a maximum of 600 pounds of Bocaccio		

\*Subject to Halibut fishery being open.

#### 6.5. Fishing Restrictions for ITQ Excess Overage

Licences that exceed their total dogfish ITQ holdings by area by more than 10% or 5,000 pounds (whichever is greater) will be restricted from further fishing activity for the remainder of the fishing year, or until such time that sufficient ITQ is reallocated to the licence to cover any overages.

Licences that exceed their total non-directed ITQ holdings by area by more than 30% or 100 pounds (whichever is greater) will be restricted from further fishing activity for the remainder of the fishing year, or until such time that sufficient ITQ is reallocated to the licence to cover any overages.

Licences with catch that exceeds their annual ITQ species caps will be restricted from fishing for the remainder of the fishing season.

Licenses that do not reconcile excess overages by February 20, 2015, will carry excess overages into the new season (see section 6.6.2). If a licence remains in excess overage following initial allocations of ITQ, the licence will be restricted from fishing until temporary reallocations for the 2015/2016 season are processed in mid-March, 2015.

## **6.6. Rules for Carryover of ITQ Overage and Underage**

### **6.6.1. Carryover of Directed and Non-Directed Species ITQ Underage**

Licences will be permitted to carryover uncaught ITQ up to 10% of their total dogfish and Halibut species ITQ by area at the end of the 2014/2015 fishing season. This amount includes any reallocations made during the year. This underage will be added to the licence's ITQ holdings in 2015/2016. Any amount above the 10% will be forgone.

Licences will be permitted to carryover uncaught ITQ up to 30% of their total rockfish and Lingcod species ITQ by area at the end of the 2014/2015 fishing season. This amount includes any reallocations made during the year. This underage will be added to the licence's ITQ holdings in 2015/2016. Any amount above the 30% will be forgone.

Licences will be permitted to carryover uncaught ITQ up to 15% of their total Sablefish species ITQ by area at the end of the 2014/2015 fishing season. This amount includes any reallocations made during the year. This underage poundage will be added to the licence's ITQ holdings in 2015/2016. Any amount above the 15% will be forgone.

### **6.6.2. Carryover of Directed and Non-Directed Species ITQ Overage**

A licence's catch may be up to 10% over the total dogfish species ITQ (this amount includes any reallocations made during the year) or 5,000 pounds, whichever is greater. For the proper conservation and management of the resource, the amount of the overage will be deducted from the licence's ITQ (by area) in the 2015/2016 fishing season and the overage will count against the annual ITQ caps for the following season.

A licence's catch may be up to 30% over the total non-directed species ITQ (this amount includes any reallocations made during the year) or 100 pounds, whichever is greater. For the proper conservation and

management of the resource, the amount of the overage will be deducted from the licence's ITQ (by area) in the 2015/2016 fishing season and the overage will count against the annual ITQ caps for the following season.

## **7. REALLOCATION PROCEDURES**

### **7.1. Reallocation of Directed and Non-Directed Species ITQ**

The following guidelines for the reallocation of directed and non-directed species ITQ will be in effect for the 2014/2015 lingcod and dogfish fisheries.

- 7.1.1. Subject to annual ITQ caps and sector caps, upon application, licence eligibility holders will be permitted to make unlimited temporary reallocations of directed and non-directed species ITQs. A "Temporary Reallocation Request for Integrated Groundfish Fisheries" must be faxed to the GMU and, if approved, a licence amendment will be issued to reflect new ITQ amounts. The most current licence amendment must be onboard when fishing.
- 7.1.2. The 2014/2015 licence must be issued prior to any ITQ being reallocated.
- 7.1.3. Request for temporary reallocation for the 2014/2015 season must be received by 16:00 hours Pacific Time on February 20, 2015 in order to be processed.
- 7.1.4. Requests for permanent reallocation of ITQ must be received by 16:00 hours local time on February 2, 2015 in order to be processed
- 7.1.5. Permanent reallocations of ITQ will be expressed as a percentage of the TAC, and will be added to the receiving licence eligibility's percentage of the TAC.
- 7.1.6. For permanent ITQ reallocations, all vessel owners/licence eligibility holders of record must complete and sign a "Permanent Reallocation Request for Integrated Groundfish Fisheries." For temporary reallocations of ITQ only one owner or the licence eligibility holder is required to sign the "Temporary Reallocation Request for Integrated Groundfish Fisheries" form.
- 7.1.7. ITQ that has already been caught or deemed "fished" cannot be reallocated.
- 7.1.8. The minimum quantity of ITQ that may be reallocated is one pound.
- 7.1.9. Temporary reallocations are only valid for the current fishing season.
- 7.1.10. Reallocations for the 2014/2015 season will not be processed until 08:00 hours local time March 15, 2014.

## 8. DUAL FISHING

Dual fishing means fishing for commercial and First Nation food social and ceremonial (FSC) purposes on the same fishing trip. Dual fishing is authorized through licence conditions for commercial groundfish fisheries. Vessel masters considering dual fishing are responsible for reviewing their licence conditions to ensure they are aware of the dual fishing requirements.

Before hailing out on a dual fishing trip, the vessel master must obtain a dual fishing designation certificate from a designating First Nation that has a communal licence authorizing the harvest of groundfish. The designation certificate must contain all of the information set out in the conditions of licence. If any of the information is missing the designation certificate will not be considered valid and the vessel master cannot dual fish.

A designation certificate template is available on the DFO website: <http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/index-eng.html>. Aboriginal organizations may issue their own designation certificate as long as the required information is included.

When hailing out, the vessel master must notify the hail service provider that they will be dual fishing, provide the name of the First Nation that issued the designation certificate, and provide the unique designation certificate identification number. The vessel master must carry the designation certificate on board the vessel at all times during the fishing trip. The vessel master must record in the comments section and the retained column of the Integrated Groundfish Fishing Log the fish retained by species under the communal licence by set.

When hailing in, the vessel master must provide an estimate of fish in poundage and by species caught under the authority of the designation certificate.

Unless the designating First Nation requests to have the FSC fish landed and validated at a different location, all fish from the trip must be landed at the same place and validated by the designated groundfish dockside observer. At the time of offload, the vessel master must provide a valid designation certificate to the dockside observer. If one is not provided, all catch from the trip will be considered commercial catch until the completion of a review by the Groundfish Management Unit and discussion with the vessel master. Furthermore, if FSC fish are landed at a different location than the commercial catch, an FSC validation record containing the verified weight and the number of pieces by species must be completed by a fisheries representative of the designating First Nation organization. The vessel master must obtain a copy of the FSC validation record and provide it to the designated groundfish dockside monitor at the time of the commercial offload.

## 9. CLOSURES

### 9.1. Strait of Georgia Sponge Reef Voluntary Avoidance Measures

DFO continues to move forward in the formal protection of the identified glass sponges reefs found with the Strait of Georgia. Currently, formal closure of bottom contact fishing activities on these reefs is under consideration for possible inseason implementation. In the interim and in support of the shared objective for providing formal protection of the glass sponge reefs, the Department is requesting that all harvesters using bottom contact fishing gear voluntarily avoid known glass sponge reefs identified in the Strait of Georgia. DFO has embarked in an ecological risk assessment process whereby anticipated protection measures will be developed in partnership with First Nations, commercial and recreational industries and other stakeholders during the 2014 season. Coordinates for the voluntary avoidance reef areas and illustration of location of the known Strait of Georgia Glass Sponge Reefs can be found in Section 8.5 of the 2014/15 Groundfish Trawl Commercial Harvest Plan.

### 9.2. Rockfish Conservation Areas

Effective February 1, 2007 a suite of Rockfish Conservation Areas (RCAs) came into effect. Designation of the final 164 closed areas is a result of over three years of consultation with many stakeholders. The RCAs can also be downloaded from the Department's internet site at:

[http://www.pac.dfo-mpo.gc.ca/recfish/Restricted\\_Areas/RCAs/default\\_e.htm](http://www.pac.dfo-mpo.gc.ca/recfish/Restricted_Areas/RCAs/default_e.htm)

### 9.3. Gwaii Haanas National Marine Conservation Area

Harvesters are reminded that the zones within the Gwaii Haanas National Marine Conservation Area Reserve as described below are closed to fishing. For background information see IFMP section 8.4.

Areas closed are described below:

All tidal waters of Gwaii Haanas National Marine Conservation Area Reserve and Haida Heritage Site:

#### 9.3.1. Burnaby Narrows

Those waters of Subareas 2-13 and 2-16 inside a line:

commencing at	52°23.071' N	131°20.427' W
then east to	52°23.079' N	131°22.79' W
following the southern shoreline of Kat Island east to	52°23.104' N	131°22.193' W
then east to	52°23.303' N	131°21.277' W
following the western shoreline of Burnaby Island south to	52°20.982' N	131°20.427' W
then west to	52°20.733' N	131°21.063' W
then north following the eastern shoreline of Moresby Island back to the point of commencement.		

9.3.2. Louscoone Estuary

Those waters of Subareas 2-33 and 2-34 north of a line:

drawn from	52°11.828' N	131°15.662' W
then true east to	52°12.269' N	131°14.579' W

9.3.3. Flamingo Estuary

Those waters of Subarea 2-37 north of a line:

drawn from	52°14.523' N	131°22.24' W
then southeast to	52°14.245' N	131°21.481' W

9.3.4. Gowgaia Estuary

Those waters of Subarea 2-41 east of a line:

drawn from	52°24.947' N	131°32.13' W
then southeast to	52°24.233' N	131°32.021' W

9.3.5. Cape Saint James

Those waters of Subareas 2-19, 102-3, 130-3 and 142-1 inside a line:

commencing at	51°56.509' N	131°01.547' W
then southwest to	51°55.499' N	131°02.468' W
then southeast to	51°52.493' N	130°57.907' W
then south to	51°51.655' N	130°57.780' W
then southeast to	51°50.395' N	130°56.561' W
then northeast to	51°51.054' N	130°54.702' W
then north to	51°53.826' N	130°55.640' W
then northwest to	51°58.517' N	130°59.468' W
then west to	51°58.727' N	131°00.620' W

and then following the southern shore of Kungit Island to the point of commencement.

9.3.6. SGang Gwaay

Those waters of Subareas 2-31 and 142-1 inside a 3 km radius from the centre

point on Anthony Island located at:	52°05.655' N	131°13.178' W
-------------------------------------	--------------	---------------

**9.4. Permanent Closures**

9.4.1. Strait of Georgia Lingcod

Closed year-round in Areas and Subareas 13 to 19, 20-5 to 20-7, 28 and 29.

9.4.2. Georgia Strait and WCVI Closures

Area/Subarea	Rationale for Closure
13-2 to 13-9, 13-11 and 13-27	Closed to all commercial fishing.

Area/Subarea	Rationale for Closure
14-11 and 14-14	Harbour areas.
16-3 and 16-4	Harbour areas.
17-7 and 17-14	Harbour areas.
17-20 and 17-21	Protect shallow water environment.
18-8	Harbour areas.
19-1	Harbour areas.
19-6	Protect shallow water environment.
19-7 to 19-12	Designated sport-fishing area (open for dogfish only).
20-6 and 20-7	Harbour areas.
28	Designated sport-fishing areas.
29-7 to 29-17	Protect shallow water environment and Fraser River.
22	Protect shallow fresh water environment.

## 9.5. Year-Round Closures

The following areas will be closed February 21, 2014 to February 20, 2015 to reduce harvesting pressure and provide improved access for First Nations food, social and ceremonial purposes.

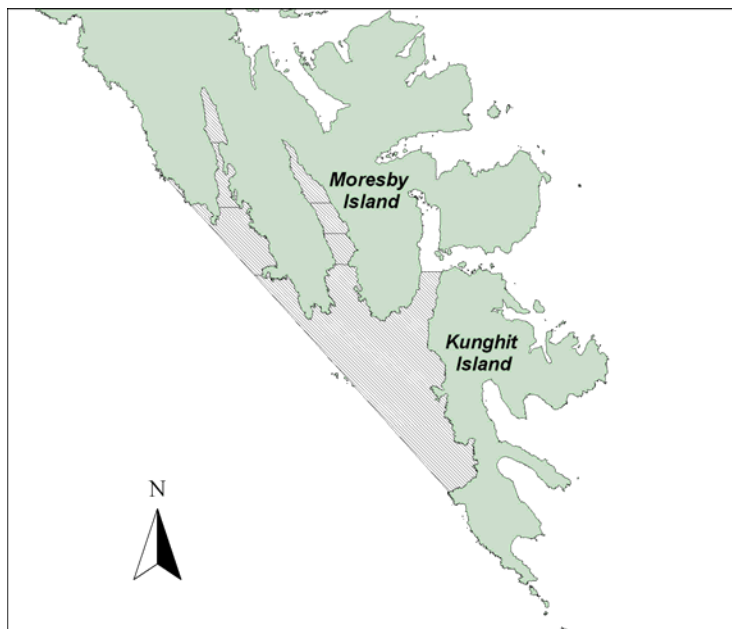
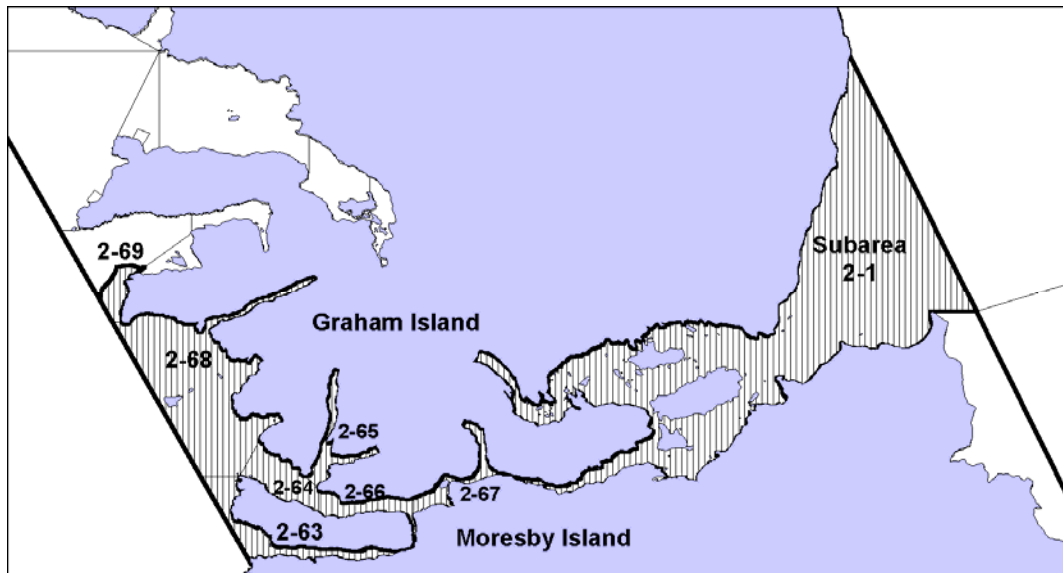
### 9.5.1. Queen Charlottes

Subareas 2-1, 2-31 to 2-37, 2-63 to 2-68; and that portion of Subarea 2-69 from Hunter Point to Fame Point shoreward of the coordinates laid out below. These areas are closed year round for all commercial groundfish fisheries. The intent of the closure is to reduce harvesting pressure on localized stocks of fish and to provide improved access for First Nations food, social and ceremonial purposes.

Subarea 2-69:

The portion of Subarea 2-69 inside a line:		
that begins at Fame Point	53°17.060' N	132°42.415' W
then to	53°17.060' N	132°43.800' W
then to	53°16.350' N	132°44.700' W
then abutting the boundary of 2-68	53°15.208' N	132°43.597' W
Then to Hunter Point	53°15.208' N	132°42.984' W





9.5.2. Swiftsure Commercial

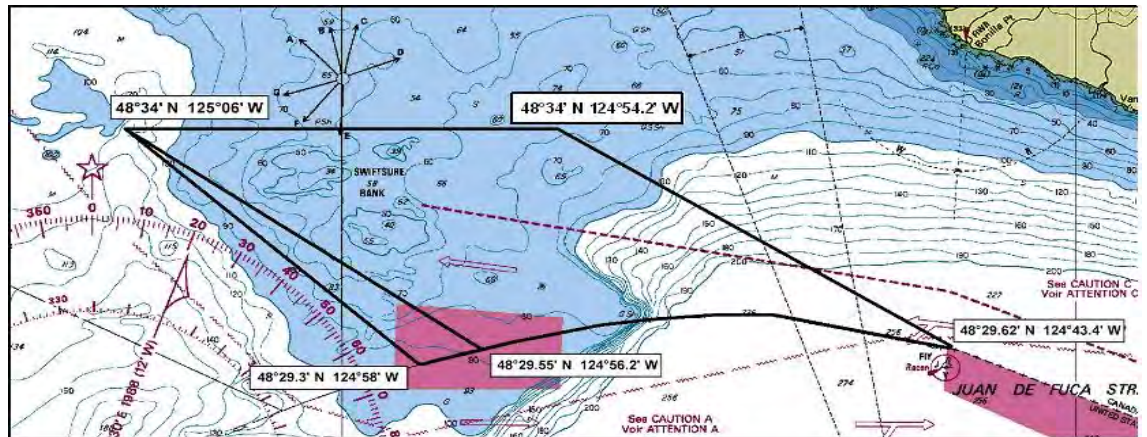
Those portions of Subareas 121-1 and 121-2 inside a line:

that begins at	48°34.0' N	125°06.0' W
then true east to	48°34.0' N	124°54.2' W
then to	48°29.62' N	124°43.4' W
then following the International Boundary between Canada and the United States of America to	48°29.3' N	124°58.0' W
then to the beginning point.		

### 9.5.3. Swiftsure Recreational

Those portions of Subareas 121-1 and 121-2 inside a line:

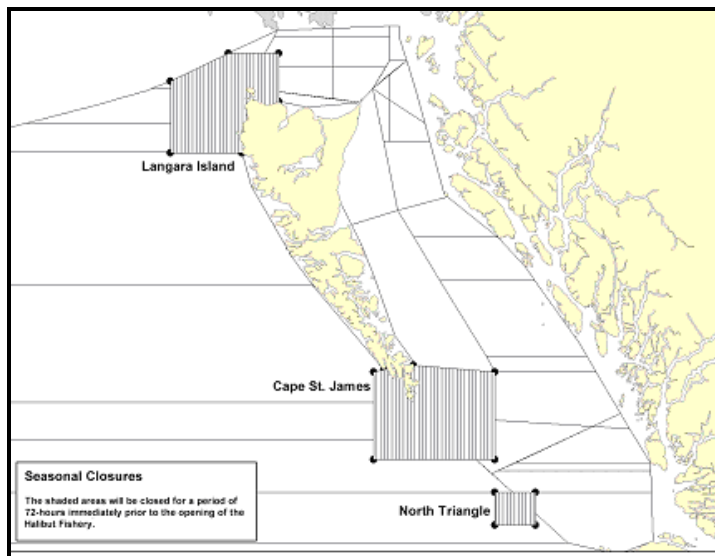
that begins at	48°34.0' N	125°06.0' W
then true east to	48°34.0' N	124°54.2' W
then to	48°29.62' N	124°43.4' W
then following the International Boundary between Canada and the United States of America to	48°29.55' N	124°56.2' W
then to the beginning point.		



### 9.6. Seasonal Closures

These closures go into effect 72 hours prior to the halibut opening each year for all commercial hook and line fishing vessels. Their intent is to ensure a fair and orderly opening for the halibut fishery.

### Coast-wide Map of 72-Hour “Halibut Opening” Closure



Those portions of Area 101 that are:  
east of the meridian passing through 134°00.0' west longitude;  
west of the meridian passing through 132°40.0' west longitude; and  
south of the parallel passing through 54°30.0' north latitude.

Those portions of Subareas 102-2, 102-3, 108-2, 130-2, 130-3 and 142-1 that are inside a line that:

that begins at	52°11.0' N	131°22.16' W
then westerly to	52°10.0' N	131°30.0' W
then true south to	51°30.0' N	131°30.0' W
then true east to	51°30.0' N	130°00.0' W
then true north to	52°10.0' N	130°00.0' W
then westerly to	52°13.0' N	131°00.3' W

Those portions of Area 111 and Subarea 130-1 that lie inside a line that:

begins at	51°15.0' N	130°00.0' W
then true east to	51°15.0' N	129°30.0' W
then true south to	51°00.0' N	129°30.0' W
then true west to	51°00.0' N	130°00.0' W
then true north to the beginning point.		

## Appendix 4: Rockfish by Hook and Line (Inside ZN) Commercial Harvest Plan

### TABLE OF CONTENTS

1.	MANAGEMENT UPDATES & CHANGES FOR 2014/2015 .....	2
1.1.	In-Season Changes/Updates.....	2
1.2.	Species of Interest Program Continuation .....	2
1.3.	Discontinuation of Season Extension .....	2
1.4.	At-Sea Observers and Electronic Monitoring.....	2
1.5.	Licensing Service Changes – Effective in 2014 .....	3
1.6.	Big skate and Longnose skate allocation process .....	4
1.7.	Continuation of Pilot Bocaccio Rebuilding Measures.....	4
1.8.	Logbook Effort Reporting Reminder.....	4
1.9.	Area Coordinate Formats in the IFMP.....	5
2.	SPECIES .....	5
3.	GEAR .....	5
3.1.	Provision to use trap gear.....	5
4.	FISHING AREAS .....	5
5.	LICENSING .....	6
5.1.	Licence Category .....	6
5.2.	Licence Fees.....	6
5.3.	Licence Application and Issuance .....	6
5.4.	Licence Options .....	6
5.5.	Licence Amendments and Documents.....	7
5.6.	Vessel Redesignations .....	7
5.7.	Licence Eligibility Nominations .....	7
5.8.	Open Times.....	7
6.	ROCKFISH INDIVIDUAL TRANSFERABLE QUOTAS (ITQ).....	8
6.1.	Annual ITQ Caps .....	8
6.2.	Trip Limits .....	8
6.3.	Fishing Restrictions for ITQ Excess Overages.....	9
6.4.	Reallocation of Directed and Non-Directed Species ITQ.....	9
6.5.	Rules for Carryover of ITQ Overage and Underage.....	10
7.	DUAL FISHING .....	10
8.	CLOSURES .....	11
8.1.	Strait of Georgia Sponge Reef Voluntary Avoidance Measures .....	11
8.2.	Gwaii Haanas National Marine Conservation Area.....	12
8.3.	Rockfish Conservation Areas .....	13
8.4.	Permanent Closures: .....	13

## **1. MANAGEMENT UPDATES & CHANGES FOR 2014/2015**

### **1.1. In-Season Changes/Updates**

In-season updates are available on the Fishery Notice website at: [http://www-ops2.pac.dfo-mpo.gc.ca/xnet/content/fns/index.cfm?pg=search\\_options&lang=en&id=commercial](http://www-ops2.pac.dfo-mpo.gc.ca/xnet/content/fns/index.cfm?pg=search_options&lang=en&id=commercial). In-season Sector Catch and Sector Cap summaries are updated daily and can be found at: <http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/index-eng.htm>

### **1.2. Species of Interest Program Continuation**

The species of interest pilot program, which started in 2011, aimed to provide harvesters feedback on how well the commercial groundfish integrated logbook is being completed for skates, seabirds, marine mammals, and sharks. During the pilot program, harvesters have made improvements in the accurate recording of skates; however a continued improvement on the recording of sharks, mammals, and seabirds is required. Beginning in the 2013/2014 season, Big Skate and Longnose Skate were incorporated into the testable portion of logbook audits (i.e., reporting of these two species of interest will impact audit trip scores and could result in a 100% review of fishing trips if misreported). Other species of interest (sharks, marine mammals, and seabirds) will continue to be tested in the Species of Interest section of the logbook audit, and misreporting of these species will be reported to individual harvesters and the Department's Electronic Monitoring Audit Review Board. Accurate reporting of all shark, mammal, and seabird encounters is required to assess the impact of fisheries on these species. Please ensure skippers and crew are aware of this program.

### **1.3. Discontinuation of Season Extension**

As in 2012 and 2013, fishing season extensions beyond the regular commercial season closing date of February 20, 2015, will not be available.

### **1.4. At-Sea Observers and Electronic Monitoring**

Beginning April 1, 2013, DFO determined it would no longer share the costs of the at-sea observer or electronic monitoring programs. The commercial groundfish fishing industry will now enter directly into contracts with at-sea observer service providers that are certified by the Canadian General Standards Board and designated by DFO. Interested companies will apply to the Canadian General Standards Board to become certified, and then, to the Department to become designated as a service provider for at-sea observer services beginning on April 1, 2013. Industry will also enter directly into contracts with electronic monitoring service providers that are approved by the Department as meeting the requirements for the provision of electronic monitoring services set out in the groundfish licence conditions and Appendix 2 of the groundfish IFMP.

### **1.5. Licensing Service Changes – Effective in 2014**

Fisheries and Oceans Canada (DFO) introduced the web-based National Online Licensing System (NOLS) in the Spring of 2013. This web-based system replaces in-person counter service at Pacific Fishery Licensing Units. Fish harvesters/Licence Holders/vessel owners will now use the new online system to view, pay for and print their commercial fishing licences, licence conditions and/or receipts.

Fish harvesters must log into the National Online Licensing System to register and activate their accounts, using the DFO Passcode that has been mailed to them, in order to pay the fees and request issuance of a licence.

Licence renewal and payment of fees is mandatory on an annual basis prior to the expiry date of each fishery, in order to maintain the eligibility to be issued the licence in the future. Please note, the licence eligibility will cease if not renewed annually.

In early 2014, the need to submit the applicable forms will continue to be necessary where a designated vessel and option information is required. Licensing forms will no longer collect information on “individuals designated to request amendments”. The Groundfish Management Unit will be collecting “individuals designated to request amendments” on their licence amendment forms. The applicable forms will be sent to licence eligibility holders by mail and the payment required to be processed through the National Online Licensing System.

**To avoid delays, please ensure the payment, vessel designation and option information is submitted to DFO at the same time.**

Upon the Department receiving the required payment, applicable documentation and information, the licence will be issued and notification will be sent via email to advise licence holders that a change has been made to the licence holder’s online account. The licence documents, licence conditions and receipt will be available to be printed at that time.

Later in 2014, a “request” feature to collect designated vessel and option details will be available through the National Online Licensing System and the applicable forms once necessary will no longer be required. Licence eligibility holders will then need to submit the fee payment, vessel designation and option vessel information online. Until such time, licence holders will continue to submit the necessary form to the Pacific Fishery Licence Unit while making the fee payments through the National Online Licensing System.

For transactions that are not yet available in the National Online Licensing System (e.g. Vessel replacements and nominations), licensing services will continue to be available either through telephone (1-877-535-7307), e-mail

([fishing-peche@dfo-mpo.gc.ca](mailto:fishing-peche@dfo-mpo.gc.ca)), or fax (604-666-5855). Please be sure to visit the Pacific Region Licensing website and subscribe to fishery notices for updates on the National Online Licensing System and licensing services: <http://www.pac.dfo-mpo.gc.ca/fm-gp/licence-permis/index-eng.html>. Information on the new system may be found on the DFO internet site at: <http://www.dfo-mpo.gc.ca/fm-gp/sdc-cps/licence-permis-eng.htm>.

#### **1.6. Big skate and Longnose skate allocation process**

Consistent with the Department's direction of explicit and transparent allocations and to further promote stewardship of skate species, formal discussions between the DFO and commercial groundfish fishery sectors were initiated in 2013 to change the commercial skate fishery management and to formulate sector allocations for Big and Longnose skate. As result of DFO's initiation of these discussions all commercial skate fishers are hereby notified that catches of Big and Longnose Skate occurring in the 2013 fishing season and beyond will not be used when determining future groundfish sector catch allocations.

This action is taken to reduce the impact of speculative fishing that may occur as a result of discussions on sector allocations and management measures for both skate species. Advice on final sector allocations and new management measures will be formulated through extensive consultations with fishing interests.

#### **1.7. Continuation of Pilot Bocaccio Rebuilding Measures**

Based on updated science information, the Department introduced bocaccio catch reduction targets from 2012 catch levels of approximately 137 tonnes (inclusive of trawl, groundfish hook and line, salmon troll, and recreational sectors) to 75 tonnes over a three year period, in order to support stock rebuilding. In November 2013, the Committee On The Status Of Endangered Wildlife In Canada (COSEWIC) reassessed Bocaccio and recommended it for listing under the Species At Risk Act as "endangered".

Beginning in 2013/2014, the inside rockfish fishery was subject to trip limits specifically for bocaccio; these will remain in place for 2014/15. The Commercial Industry Caucus, an advisory body with representatives from all commercial groundfish fleets, has also supported a voluntary relinquishment program for the proceeds of bocaccio catch in the groundfish hook and line fleets, similar to that in place for the trawl fleet. The Department will continue to review the efficacy of these pilot measures at the end of each fishing season and consider any additional measures necessary to support stock rebuilding. Please refer to conditions of licence, section 9.1.5 of the IFMP, and section 6.2 of this harvest plan for further information.

#### **1.8 Logbook Effort Reporting Reminder**

Effort data within the commercial groundfish integrated logbook is often incomplete or captured inaccurately. Please be advised that accurate recording of fishing effort in logbooks is a condition of licence and logbook data is an important component for assessment of stocks. Please ensure that “GEAR ID” and “Gear/Skate Details” fields are accurately completed by following instructions provided in the groundfish integrated logbook instructions.

### **1.9. Area Coordinate Formats in the IFMP**

Area coordinates throughout the IFMP (e.g., Groundfish Management Areas, Rockfish Conservation Areas, Marine Protected Areas, etc.) may be provided in several different formats. The format provided in the IFMP is typically consistent with the format provided in the regulation describing the specified area. You are reminded that it is the responsibility of the vessel master to ensure the correct coordinate format is used during navigation and in navigation software.

## **2. SPECIES**

Rockfish (*Sebastes sp.*) and Longspine/Shortspine Thornyheads (*Sebastolobus sp.*)

Halibut (*Hippoglossus stenolepis*)

Lingcod (*Ophiodon elongates*)

Spiny Dogfish (*Squalus suckleyi*)

Skate (*Rajidae*)

Sole and Flounder (*Pleuronectiformes* other than *Hippoglossus stenolepis*)

Pacific cod (*Gadus macrocephalus*)

Greenlings (*Hexagrammos sp.*)

## **3. GEAR**

Fishing under a category ZN is permitted to occur by hook and line gear, specifically longline, jig, and troll. A provision exists to permit vessels to fish using trap gear.

### **3.1. Provision to use trap gear**

Vessels interested in using trap gear to fish rockfish for the 2014/2015 season will be required to submit a request and should contact the Hook and Line Co-ordinator for additional information.

## **4. FISHING AREAS**

Subject to closures listed in Section 7, the Inside Quota Management Area for rockfish is defined as: Areas 13 to 20, 28, 29 and Subareas 12-1 to 12-13, 12-15 to 12-48. Areas and Subareas are described in the *Pacific Fishery Management Area Regulations, 2007*.



## **5. LICENSING**

### **5.1. Licence Category**

A rockfish commercial category ZN or communal commercial category FZN licence eligibility is limited entry and party based.

### **5.2. Licence Fees**

The annual licence application fee is \$100.

### **5.3. Licence Application and Issuance**

Category ZN rockfish licence eligibilities must be applied for and issued annually regardless of whether or not fishing is carried out by, by February 20<sup>th</sup> of the next calendar year.

The licence eligibility holder or an authorized representative must sign the applicable form. If the licence eligibility holder is a company or aboriginal group, the Pacific Fishery Licence Unit (PFLU) must have on record a copy of BC Company Summary and/or a Confirmation of Signing Authorities form listing the signing authorities.

Vessels may be designated with up to 8 'Inside rockfish' licences at one time during a season.

Prior to annual licence issuance, licence eligibility holders are required to:

- a) Meet any Ministerial conditions placed on licence eligibility.
- b) Indicate on the application if you do not intend to harvest under the authority of the rockfish licence eligibility in 2014.
- c) Ensure any conditions of the previous year's licence have been met.
- d) Designate a registered commercial fishing vessel that is eligible for any vessel based licence (i.e.) salmon, schedule II species, geoduck, Sablefish, Halibut, crab, shrimp by trawl and prawn and shrimp by trap, a valid communal commercial licence or a valid salmon category N licence. Designated vessels may not exceed the maximum vessel length (MVL) of the initial licence designated. The MVL will be waived for any additional designated inside rockfish licences.

### **5.4. Licence Options**

The designated vessel may not exceed to the Maximum Vessel Length (MVL) of the initial inside rockfish licence designated, however, the option to participate in the directed ZN fishery may be made for each additional inside rockfish licence designated to the vessel at the time of licence issuance.

Should the licence holder select the option to not participate in the directed ZN fishery, the designated vessel may exceed the MVL of the rockfish licence eligibility. The designated vessel will then reallocate rockfish quota to other licence eligibilities

If the selection has been made to not participate in the directed rockfish fishery at the beginning of the season, the licence holder may choose to change to the option to participate at a later date, as long as the vessel meets all the length requirements, where applicable.

#### **5.5. Licence Amendments and Documents**

Prior to commencing to harvest under the authority of a rockfish licence, the licence eligibility holder or an authorized representative must request and receive a 2014/2015 licence amendment from the Groundfish Management Unit. Licence Amendment Request Forms and all other applicable forms are available online at: <http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/index-eng.html>.

Rockfish licence documents are valid from the date of issue to February 20, 2015. Replacements for lost or destroyed licence documents may be obtained by reprinting the licence documents through the National Online Licensing System.

#### **5.6. Vessel Redesignations**

A completed Application for Category Z Vessel Redesignation form must be completed by the licence eligibility holder and submitted to a PFLU.

The Application for Vessel Redesignation form is available online at <http://www.pac.dfo-mpo.gc.ca/fm-gp/licence-permis/index-eng.html> or by contacting the PFLU by phone at 1-877-535-7307 or via e-mail at [fishing-peche@dfo-mpo.gc.ca](mailto:fishing-peche@dfo-mpo.gc.ca).

Later in 2014, the applicable forms once needed will no longer be required and redesignation requests will then need to be submitted through the National Online Licensing System as described above.

#### **5.7. Licence Eligibility Nominations**

Rockfish category ZN licence eligibilities may be nominated from one party to another. A nomination for Category Z Licence Eligibility form must be completed by the licence eligibility holder. The Nomination for Category Z Licence Eligibility form is available online at <http://www.pac.dfo-mpo.gc.ca/fm-gp/licence-permis/index-eng.html> or by contacting the PFLU by phone at 1-877-535-7307 or via e-mail at [fishing-peche@dfo-mpo.gc.ca](mailto:fishing-peche@dfo-mpo.gc.ca).

Communal commercial rockfish category FZN licence eligibilities may not be nominated as these are allocated annually to First Nation groups.

#### **5.8. Open Times**

With the exception of those seasonal and permanent closures noted in this plan, or closures announced in-season, the Rockfish by Hook and Line (Inside ZN) fishery will be open from February 21, 2014 to February 20, 2015.

## 6. ROCKFISH INDIVIDUAL TRANSFERABLE QUOTAS (ITQ)

### 6.1. Annual ITQ Caps

All ZN licences will have annual ITQ caps for some of their directed and non-directed catch. Permanent and temporary reallocations up to the species caps listed below will be a permitted.

#### 6.1.1. TAC Holdings Permanent Quota Caps

All ZN Inside licences will have annual ITQ caps for permanent quota. The total amount of permanent reallocations of quota may not exceed the quota caps listed below.

Species	Areas	TAC Holdings Cap (pounds)
Quillback, Copper, China and Tiger rockfish	4B	4,686
Yelloweye rockfish	4B	1,092

#### 6.1.2. Licence Species Temporary and Permanent Quota Caps (Directed Species)

Species	Areas	Licence Species Cap (pounds)
Quillback, Copper, China and Tiger rockfish	4B	9,372
Yelloweye rockfish	4B	2,184

#### 6.1.3. Quota Holdings Caps (Non-Directed Species)

Species	Areas	Licence Species Cap (pounds)
Dogfish	4B	1,250
Halibut	Coastwide	3,500

#### 6.1.4. Stacking Licences

ITQ will automatically be reallocated to the initial rockfish licence designated to the vessel. Vessels may be designated with up to 8 inside rockfish licences, however, only one inside rockfish licence per vessel may hold ITQ.

### 6.2. Trip Limits

For some species of groundfish caught while hauled out on a directed rockfish fishing trip (Inside ZN) the following trip limits will apply:

<b>Species</b>	<b>Trip Limit (pounds)</b>	
Halibut	800	
Kelp Greenlings	Must be equal to or less than the total of Quillback, Copper, China, Tiger that is landed	
Lingcod (4B)	400	
Other Rockfish	Must be equal to or less than the total of Quillback, Copper, China, Tiger that is landed	
Pacific Cod	150	
Skate	50	
Sole and Flounder	No limit	
Bocaccio	Landings (round weight) per trip may not exceed:	
	200 pounds where 15,000 pounds or less of quota applicable rockfish is landed	200 pounds plus 1% of the amount of quota applicable rockfish landed in excess of 15,000 pounds, to a maximum of 600 pounds of Bocaccio

### **6.3. Fishing Restrictions for ITQ Excess Overages**

Licences that exceed their total directed or non-directed species ITQ holdings by area by more than 10% or 100 pounds (whichever is greater) will be restricted from further fishing activity for the remainder of the fishing year, or until such time that sufficient ITQ is reallocated to the licence to cover any overages. Licences with catch that exceeds their annual ITQ species caps will be restricted from fishing for the remainder of the fishing season.

Licenses that do not reconcile excess overages by February 20, 2015, will carry excess overages into the new season (see section 6.6.2). If a licence remains in excess overage following initial allocations of ITQ, the licence will be restricted from fishing until temporary reallocations for the 2015/2016 season are processed in mid-March.

### **6.4. Reallocation of Directed and Non-Directed Species ITQ**

The following guidelines for the reallocation of directed and non-directed species ITQ will be in effect for the 2014/2015 ZN fishery.

6.4.1. Subject to annual ITQ caps and sector caps, upon application, licence eligibility holders will be permitted to make unlimited temporary reallocations of directed and non-directed species ITQs. A “Temporary Reallocation Request for Integrated Groundfish Fisheries” must be faxed to the GMU and, if approved, a licence amendment will be issued to reflect new ITQ amounts. The most current licence amendment must be onboard when fishing.

- 6.4.2. The 2014/2015 ZN licence must be issued prior to any ITQ being reallocated.
- 6.4.3. Request for temporary reallocation requests for the 2014/2015 season must be received by 16:00 hours Pacific Time on February 20, 2015 in order to be processed.
- 6.4.4. Requests for permanent reallocation of ITQ must be received by 16:00 hours local time on February 2, 2015 in order to be processed.
- 6.4.5. Permanent reallocations of ITQ will be expressed as a percentage of the TAC, and will be added to the receiving licence eligibility's percentage of the TAC.
- 6.4.6. For permanent ITQ reallocations, the licence eligibility holder(s) of record must complete and sign a "Permanent Reallocation Request for Rockfish Inside IVQ." For temporary reallocations of ITQ only one licence eligibility holder is required to sign the "Temporary Reallocation Request for Integrated Groundfish Fisheries" form.
- 6.4.7. ITQ that has already been caught or deemed "fished" cannot be reallocated.
- 6.4.8. The minimum quantity of ITQ that may be reallocated is one pound.
- 6.4.9. Temporary reallocations are only valid for the current fishing season.
- 6.5.10. Reallocations for the 2014/2015 season will not be processed until 8:00 hours local time March 15, 2014.

## **6.5. Rules for Carryover of ITQ Overage and Underage**

### **6.5.1. Carryover of Directed and Non-Directed Species ITQ Underage**

Licences will be permitted to carryover uncaught ITQ up to 10% of their total directed or non-directed species ITQ by area at the end of the 2014/2015 fishing season. This amount includes any reallocations made during the year. This amount will be added to the licence's ITQ holdings in 2015/2016. Any amount above the 10% will be forgone.

### **6.5.2. Carryover of Directed and Non-Directed Species ITQ Overage**

A licence's catch may be up to 10% over the total directed or non-directed species ITQ (this amount includes any reallocations made during the year) or 100 pounds, whichever is greater. For the proper conservation and management of the resource, the amount of the overage will be deducted from the licence's ITQ (by area) in the 2014/2015 fishing season and the overage will count against the annual ITQ caps for the following season.

## **7. DUAL FISHING**

Dual fishing means fishing for commercial and First Nation food social and ceremonial (FSC) purposes on the same fishing trip. Dual fishing is authorized through licence conditions for commercial groundfish fisheries. Vessel masters considering dual fishing are responsible for reviewing their licence conditions to ensure they are aware of the dual fishing requirements.

Before hailing out on a dual fishing trip, the vessel master must obtain a dual fishing designation certificate from a designating First Nation that has a communal licence authorizing the harvest of groundfish. The designation certificate must contain all of the information set out in the conditions of licence. If any of the information is missing the designation certificate will not be considered valid and the vessel master cannot dual fish.

A designation certificate template is available on the DFO website: <http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/index-eng.html>. Aboriginal organizations may issue their own designation certificate as long as the required information is included.

When hailing out, the vessel master must notify the hail service provider that they will be dual fishing, provide the name of the First Nation that issued the designation certificate, and provide the unique designation certificate identification number. The vessel master must carry the designation certificate on board the vessel at all times during the fishing trip. The vessel master must record in the comments section and the retained column of the Integrated Groundfish Fishing Log the fish retained by species under the communal licence by set.

When hailing in, the vessel master must provide an estimate of fish in poundage and by species caught under the authority of the designation certificate.

Unless the designating First Nation requests to have the FSC fish landed and validated at a different location, all fish from the trip must be landed at the same place and validated by the designated groundfish dockside observer. At the time of offload, the vessel master must provide a valid designation certificate to the dockside observer. If one is not provided, all catch from the trip will be considered commercial catch until the completion of a review by the Groundfish Management Unit and discussion with the vessel master. Furthermore, if FSC fish are landed at a different location than the commercial catch, an FSC validation record containing the verified weight and the number of pieces by species must be completed by a fisheries representative of the designating First Nation organization. The vessel master must obtain a copy of the FSC validation record and provide it to the designated groundfish dockside monitor at the time of the commercial offload.

## **8. CLOSURES**

### **8.1. Strait of Georgia Sponge Reef Voluntary Avoidance Measures**

DFO continues to move forward in the formal protection of the identified glass sponges reefs found with the Strait of Georgia. Currently, formal closure of bottom contact fishing activities on these reefs is under consideration for possible inseason implementation. In the interim and in support of the shared objective for providing formal protection of the glass sponge reefs, the Department is requesting that all harvesters using bottom contact fishing gear voluntarily avoid known glass sponge reefs identified in the Strait of Georgia. DFO has embarked in an ecological risk assessment process whereby anticipated protection measures will be developed in partnership with First Nations, commercial and recreational industries and other stakeholders during the 2014 season. Coordinates for the voluntary avoidance reef areas and illustration of location of the known Strait of Georgia Glass Sponge Reefs can be found in Section 8.5 of the 2014/15 Groundfish Trawl Commercial Harvest Plan.

## 8.2. Gwaii Haanas National Marine Conservation Area

Harvesters are reminded that the zones within the Gwaii Haanas National Marine Conservation Area Reserve as described below are closed to fishing. For background information please see IFMP section 8.4.

Areas closed are described below:

All tidal waters of Gwaii Haanas National Marine Conservation Area Reserve and Haida Heritage Site:

### 8.2.1. Burnaby Narrows

Those waters of Subareas 2-13 and 2-16 inside a line:

commencing at	52°23.071 N	131°20.427 W
then east to	52°23.079 N	131°22.79 W
following the southern shoreline of Kat Island east to	52°23.104 N	131°22.193 W
then east to	52°23.303 N	131°21.277 W
following the western shoreline of Burnaby Island south to	52°20.982 N	131°20.427 W
then west to	52°20.733 N	131°21.063 W
then north following the eastern shoreline of Moresby Island back to the point of commencement.		

### 8.2.2. Louscoone Estuary

Those waters of Subareas 2-33 and 2-34 north of a line:

drawn from	52°11.828 N	131°15.662 W
then true east to	52°12.269 N	131°14.579 W

### 8.2.3. Flamingo Estuary

Those waters of Subarea 2-37 north of a line:

drawn from 52°14.523 N 131°22.24 W  
then southeast to 52°14.245 N 131°21.481 W

8.2.4. Gowgaia Estuary

Those waters of Subarea 2-41 east of a line:

drawn from 52°24.947 N 131°32.13 W  
then southeast to 52°24.233 N 131°32.021 W

8.2.5. Cape Saint James

Those waters of Subareas 2-19, 102-3, 130-3 and 142-1 inside a line:

commencing at 51°56.509 N 131°01.547 W  
then southwest to 51°55.499 N 131°02.468 W  
then southeast to 51°52.493 N 130°57.907 W  
then south to 51°51.655 N 130°57.780 W  
then southeast to 51°50.395 N 130°56.561 W  
then northeast to 51°51.054 N 130°54.702 W  
then north to 51°53.826 N 130°55.640 W  
then northwest to 51°58.517 N 130°59.468 W  
then west to 51°58.727 N 131°00.620 W  
and then following the southern shore of Kungit Island to the point of commencement.

8.2.6. SGang Gwaay

Those waters of Subareas 2-31 and 142-1 inside a 3 km radius from the centre point on Anthony Island located at:

52°05.655 N 131°13.178 W

**8.3. Rockfish Conservation Areas**

Effective February 1, 2007 a suite of Rockfish Conservation Areas (RCAs) came into effect. Designation of the final 164 closed areas is a result of over three years of consultation with many stakeholders. The RCAs can also be downloaded from the Department's internet site at:

[http://www.pac.dfo-mpo.gc.ca/recfish/Restricted\\_Areas/RCAs/default\\_e.htm](http://www.pac.dfo-mpo.gc.ca/recfish/Restricted_Areas/RCAs/default_e.htm)

**8.4. Permanent Closures:**

Area/Subarea	Rationale for Closure
13-2 to 13-9, 13-11 and 13-27	Closed to all commercial fishing.
14-11 and 14-14	Harbour areas.
16-3 and 16-4	Harbour areas.
17-7 and 17-14	Harbour areas.
17-20 and 17-21	Protect shallow water environment.
18-8	Harbour areas.



<b>Area/Subarea</b>	<b>Rationale for Closure</b>
19-1	Harbour areas.
19-6	Protect shallow water environment.
19-7 to 19-12	Designated sport-fishing area (open for dogfish only).
20-6 and 20-7	Harbour areas.
Area 28	Designated sport-fishing area.
29-7 to 29-17	Protect shallow water environment and Fraser River.

## Appendix 5: Rockfish by Hook and Line (Outside ZN) Commercial Harvest Plan

### TABLE OF CONTENTS

1.	MANAGEMENT UPDATES & CHANGES FOR 2014/2015 .....	2
1.1.	In-Season Changes/Updates.....	2
1.2.	Species of Interest Program Continuation .....	2
1.3.	Discontinuation of Season Extension .....	2
1.4.	At-Sea Observers and Electronic Monitoring.....	2
1.5.	Licensing Service Changes – Effective in 2014 .....	3
1.6.	Big skate and Longnose skate allocation process .....	4
1.7.	Continuation of Pilot Bocaccio Rebuilding Measures.....	4
1.8.	Logbook Effort Reporting Reminder.....	4
1.9.	Area Coordinate Formats in the IFMP.....	5
2.	SPECIES .....	5
3.	GEAR .....	5
3.1.	Provision to use trap gear.....	5
4.	FISHING AREAS .....	5
5.	LICENSING .....	6
5.1.	Licence Category .....	6
5.2.	Licence Fees.....	6
5.3.	Licence Application and Issuance .....	6
5.4.	Licence Options .....	6
5.5.	Licence Amendments and Documents.....	7
5.6.	Vessel Redesignations .....	7
5.7.	Licence Eligibility Nominations .....	7
5.8.	Open Times.....	7
6.	RESEARCH ALLOCATION .....	8
7.	ROCKFISH INDIVIDUAL TRANSFERABLE QUOTAS (ITQ) .....	8
7.1.	Annual ITQ Caps .....	8
7.2.	Trip Limits .....	10
7.3.	Fishing Restrictions for ITQ Excess Overage .....	11
7.4.	Reallocation of Directed and Non-Directed Species ITQ.....	11
7.5.	Rules for Carryover of ITQ Overage and Underage.....	12
8.	DUAL FISHING .....	12
9.	CLOSURES .....	13
9.1.	Strait of Georgia Sponge Reef Voluntary Avoidance Measures .....	13
9.2.	Rockfish Conservation Areas .....	14
9.3.	Gwaii Haanas National Marine Conservation Area.....	14
9.4.	Year-Round Closures.....	15
9.5.	Seasonal Closures .....	17

## **1. MANAGEMENT UPDATES & CHANGES FOR 2014/2015**

### **1.1. In-Season Changes/Updates**

In-season updates are available on the Fishery Notice website at: [http://www-ops2.pac.dfo-mpo.gc.ca/xnet/content/fns/index.cfm?pg=search\\_options&lang=en&id=commercial](http://www-ops2.pac.dfo-mpo.gc.ca/xnet/content/fns/index.cfm?pg=search_options&lang=en&id=commercial). In-season Sector Catch and Sector Cap summaries are updated daily and can be found at: <http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/index-eng.htm>

### **1.2. Species of Interest Program Continuation**

The species of interest pilot program, which started in 2011, aimed to provide harvesters feedback on how well the commercial groundfish integrated logbook is being completed for skates, seabirds, marine mammals, and sharks. During the pilot program, harvesters have made improvements in the accurate recording of skates; however a continued improvement on the recording of sharks, mammals, and seabirds is required. Beginning in the 2013/2014 season, Big Skate and Longnose Skate were incorporated into the testable portion of logbook audits (i.e., reporting of these two species of interest will impact audit trip scores and could result in a 100% review of fishing trips if misreported). Other species of interest (sharks, marine mammals, and seabirds) will continue to be tested in the Species of Interest section of the logbook audit, and misreporting of these species will be reported to individual harvesters and the Department's Electronic Monitoring Audit Review Board. Accurate reporting of all shark, mammal, and seabird encounters is required to assess the impact of fisheries on these species. Please ensure skippers and crew are aware of this program.

### **1.3. Discontinuation of Season Extension**

As in 2012 and 2013, fishing season extensions beyond the regular commercial season closing date of February 20, 2015, will not be available.

### **1.4. At-Sea Observers and Electronic Monitoring**

Beginning April 1, 2013, DFO determined it would no longer share the costs of the at-sea observer or electronic monitoring programs. The commercial groundfish fishing industry will now enter directly into contracts with at-sea observer service providers that are certified by the Canadian General Standards Board and designated by DFO. Interested companies will apply to the Canadian General Standards Board to become certified, and then, to the Department to become designated as a service provider for at-sea observer services beginning on April 1, 2013. Industry will also enter directly into contracts with electronic monitoring service providers that are approved by the Department as meeting the requirements for the provision of electronic monitoring services set out in the groundfish licence conditions and Appendix 2 of the groundfish IFMP.

### **1.5. Licensing Service Changes – Effective in 2014**

Fisheries and Oceans Canada (DFO) introduced the web-based National Online Licensing System (NOLS) in the Spring of 2013. This web-based system replaces in-person counter service at Pacific Fishery Licensing Units. Fish harvesters/Licence Holders/vessel owners will now use the new online system to view, pay for and print their commercial fishing licences, licence conditions and/or receipts.

Fish harvesters must log into the National Online Licensing System to register and activate their accounts, using the DFO Passcode that has been mailed to them, in order to pay the fees and request issuance of a licence.

Licence renewal and payment of fees is mandatory on an annual basis prior to the expiry date of each fishery, in order to maintain the eligibility to be issued the licence in the future. Please note, the licence eligibility will cease if it is not renewed annually.

In early 2014, the need to submit the applicable forms will continue to be necessary where a designated vessel and option information are required. Licensing forms will no longer collect information on “individuals designated to request amendments”. The Groundfish Management Unit will be collecting “individuals designated to request amendments” on their licence amendment forms. The applicable forms will then be sent to all commercial and communal commercial Rockfish by Hook and Line (outside) licence eligibility holders by mail and the payment required to be processed through the National Online Licensing System.

**To avoid delays, please ensure the payment, vessel designation and option information is submitted to DFO at the same time.**

Upon the Department receiving the required payment, documentation and information, the licence will be issued and notification will be sent via email to advise Licence Holders that a change has been made to the licence holder’s online account. The licence documents, licence conditions and receipt will be available to be printed at that time.

Later in 2014, a “request” feature to collect designated vessel and option details will be available through the National Online Licensing System and the applicable forms once necessary will no longer be required. Licence holders will then need to submit the fee payment, vessel designation and option information online. Until such time, licence holders will continue to submit the necessary form to the Pacific Fishery Licence Unit while making the fee payments through the National Online Licensing System.

For transactions that are not yet available in the National Online Licensing System (e.g. Vessel replacements and nominations), licensing services will

continue to be available either through telephone (1-877-535-7307), e-mail ([fishing-peche@dfo-mpo.gc.ca](mailto:fishing-peche@dfo-mpo.gc.ca)), or fax (604-666-5855).

Please be sure to visit the Pacific Region Licensing website and subscribe to fishery notices for updates on the National Online Licensing System and licensing services: <http://www.pac.dfo-mpo.gc.ca/fm-gp/licence-permis/index-eng.html>. Information on the new system may be found on the DFO internet site at: <http://www.dfo-mpo.gc.ca/fm-gp/sdc-cps/licence-permis-eng.htm>.

#### **1.6. Big skate and Longnose skate allocation process**

Consistent with the Department's direction of explicit and transparent allocations and to further promote stewardship of skate species, formal discussions between the DFO and commercial groundfish fishery sectors were initiated in 2013 to change the commercial skate fishery management and to formulate sector allocations for Big and Longnose skate. As result of DFO's initiation of these discussions all commercial skate fishers are hereby notified that catches of Big and Longnose Skate occurring in the 2013 fishing season and beyond will not be used when determining future groundfish sector catch allocations.

This action is taken to reduce the impact of speculative fishing that may occur as a result of discussions on sector allocations and management measures for both skate species. Advice on final sector allocations and new management measures will be formulated through extensive consultations with fishing interests.

#### **1.7. Continuation of Pilot Bocaccio Rebuilding Measures**

Based on updated science information, the Department introduced bocaccio catch reduction targets from 2012 catch levels of approximately 137 tonnes (inclusive of trawl, groundfish hook and line, salmon troll, and recreational sectors) to 75 tonnes over a three year period, in order to support stock rebuilding. In November 2013, the Committee On The Status Of Endangered Wildlife In Canada (COSEWIC) reassessed Bocaccio and recommended it for listing under the Species At Risk Act as "endangered".

Beginning in 2013/2014, the outside rockfish fishery was subject to trip limits specifically for bocaccio; these will remain in place for 2014/15. The Commercial Industry Caucus, an advisory body with representatives from all commercial groundfish fleets, has also supported a voluntary relinquishment program for the proceeds of bocaccio catch in the groundfish hook and line fleets, similar to that in place for the trawl fleet. The Department will continue to review the efficacy of these pilot measures at the end of each fishing season and consider any additional measures necessary to support stock rebuilding. Please refer to conditions of licence, section 9.1.5 of the IFMP, and section 7.2 of this harvest plan for further information.

#### **1.8 Logbook Effort Reporting Reminder**

Effort data within the commercial groundfish integrated logbook is often incomplete or captured inaccurately. Please be advised that accurate recording of fishing effort in logbooks is a condition of licence and logbook data is an important component for assessment of stocks. Please ensure that “GEAR ID” and “Gear/Skate Details” fields are accurately completed by following instructions provided in the groundfish integrated logbook instructions.

### **1.9. Area Coordinate Formats in the IFMP**

Area coordinates throughout the IFMP (e.g., Groundfish Management Areas, Rockfish Conservation Areas, Marine Protected Areas, etc.) may be provided in several different formats. The format provided in the IFMP is typically consistent with the format provided in the regulation describing the specified area. You are reminded that it is the responsibility of the vessel master to ensure the correct coordinate format is used during navigation and in navigation software.

## **2. SPECIES**

Rockfish (*Sebastes sp.*) and Longspine/Shortspine Thornyheads (*Sebastolobus sp.*)  
Halibut (*Hippoglossus stenolepis*)  
Lingcod (*Ophiodon elongates*)  
Spiny Dogfish (*Squalus suckleyi*)  
Sablefish (*Anoplopoma fimbria*)  
Skate (*Rajidae*)  
Sole and Flounder (*Pleuronectiformes* other than *Hippoglossus stenolepis*)  
Pacific cod (*Gadus macrocephalus*)  
Greenlings (*Hexagrammos sp.*)

## **3. GEAR**

Fishing under a category ZN is permitted to occur by hook and line gear, specifically longline, jig, and troll. A provision exists to permit vessels to fish using trap gear, upon request.

### **3.1. Provision to use trap gear**

Vessels interested in using trap gear to fish rockfish will be required to submit a request and should contact the Hook and Line Co-ordinator for additional information. .

## **4. FISHING AREAS**

Subject to those closures listed in Section 7, the outside management areas include: Areas 1 to 11, 21, 23 to 27, 101 to 111, 121, 123 to 127, 130, 142 and Subarea 12-14. Areas and Subareas are described in the *Pacific Fishery Management Area Regulations, 2007*.

## 5. LICENSING

### 5.1. Licence Category

A rockfish commercial category ZN or a communal commercial category FZN licence is limited entry and party based.

### 5.2. Licence Fees

The annual licence application fee is \$100.

### 5.3. Licence Application and Issuance

Category ZN rockfish licence eligibilities must be applied for and issued annually regardless of whether or not fishing is carried out, by February 20<sup>th</sup> of the next calendar year.

**To avoid delays, please ensure the payment, vessel designation and option information is submitted to DFO at the same time.**

The licence eligibility holder or an authorized representative must sign the applicable form. If the licence eligibility holder is a company or aboriginal group, the Pacific Fishery Licence Unit (PFLU) must have on record a copy of BC Company Summary and/or a Confirmation of Signing Authorities form listing the signing authorities.

Vessels may not be designated with more than one 'Outside rockfish' licences during a season.

Prior to annual licence issuance, licence eligibility holders are required to:

- a) Meet any Ministerial conditions placed on licence eligibility.
- b) Indicate on the application if you do not intend to harvest under the authority of the rockfish licence eligibility in 2014.
- c) Ensure any conditions of the previous year's licence are met.
- d) Designate a registered commercial fishing vessel that is eligible for any vessel based licence (i.e.) salmon, schedule II species, geoduck, Sablefish, Halibut, crab, shrimp by trawl and prawn and shrimp by trap, a valid communal commercial licence or a valid salmon category N licence. Designated vessels may not exceed the maximum vessel length (MVL) of the licence designated.

### 5.4. Licence Options

The designated vessel may not exceed the Maximum Vessel Length (MVL) of the outside rockfish licence designated, even when an initial inside rockfish licence has already been designated; unless the option to not participate in the directed ZN fishery is made at the time of licence issuance.

Should the licence holder select the option to not participate in the directed ZN fishery, the designated vessel may exceed the MVL of the rockfish licence eligibility. The designated vessel will then reallocate rockfish quota to other licence eligibilities.

If the selection has been made to not participate in the directed rockfish fishery at the beginning of the season, the licence holder may choose to change to the option to participate at a later date, as long as the vessel meets all the length requirements, where applicable.

#### **5.5. Licence Amendments and Documents**

Prior to commencing to harvest under the authority of a rockfish licence the licence

eligibility holder or an authorized representative must request and receive a 2014/2015 licence amendment from the Groundfish Management Unit. Licence Amendment Request Forms and all applicable forms are available online at: <http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/index-eng.html>.

Rockfish licence documents are valid from the date of issue to February 20, 2015. Replacements for lost or destroyed licence documents may be obtained by reprinting the licence documents through the National Online Licensing System.

#### **5.6. Vessel Redesignations**

A completed Application for Category Z Vessel Redesignation form must be completed by the licence eligibility holder and submitted to a PFLU.

The Application for Vessel Redesignation form is available online at <http://www.pac.dfo-mpo.gc.ca/fm-gp/licence-permis/index-eng.html> or by contacting the PFLU by phone at 1-877-535-7307 or via e-mail at [fishing-peche@dfo-mpo.gc.ca](mailto:fishing-peche@dfo-mpo.gc.ca).

Later in 2014, forms will no longer be required and redesignation requests will be submitted through the National Online Licensing System as described above.

#### **5.7. Licence Eligibility Nominations**

Rockfish category ZN licence eligibilities may be nominated from one party to another. A nomination for Category Z Licence Eligibility form must be completed by the licence eligibility holder. The Nomination for Category Z Licence Eligibility form is available online at <http://www.pac.dfo-mpo.gc.ca/fm-gp/licence-permis/index-eng.html> or by contacting the PFLU by phone at 1-877-535-7307 or via e-mail at [fishing-peche@dfo-mpo.gc.ca](mailto:fishing-peche@dfo-mpo.gc.ca).

Communal commercial rockfish category FZN licence eligibilities may not be nominated as these are allocated annually to First Nation groups.

#### **5.8. Open Times**

With the exception of those seasonal and permanent closures noted in this plan, or closures announced in-season, the Rockfish by Hook and Line (Outside ZN) fishery will be open from February 21, 2014 to February 20, 2015.



## 6. RESEARCH ALLOCATION

To support rockfish research the Groundfish Hook and Line Sub Committee (GHLSC) has agreed to set aside five percent of the allocations for research purposes.

The following table indicates the 2014/2015 outside rockfish research allocation:

<b>Species/Aggregate</b>	<b>Quota (tonnes)</b>
Yelloweye rockfish	9
Quillback, Copper, China and Tiger rockfish	7
Silvergrey rockfish	7
Canary rockfish	6
Redbanded rockfish	11
Rougeye rockfish	20
Shortraker rockfish	4
Yellowmouth rockfish	3
Yellowtail rockfish	2
Shortspine Thornyheads	1

## 7. ROCKFISH INDIVIDUAL TRANSFERABLE QUOTAS (ITQ)

### 7.1. Annual ITQ Caps

#### 7.1.1. TAC Holdings Permanent Quota Caps

All ZN Outside licences will have annual ITQ caps for permanent quota. The total amount of permanent reallocations of quota may not exceed the quota caps listed below.

<b>Species</b>	<b>Areas</b>	<b>TAC Holdings Cap (pounds)</b>
Yelloweye rockfish	3C/D, 5A	2,268
	5B	1,053
	5C/D	1,350
	5E	1,296
Quillback, Copper, China and Tiger rockfish	3C/D, 5A	3,886
	5B	2,010
	5C/D	2,948
	5E	402
Canary rockfish	3C/D	1,073
	5A/B	1,835
	5C/D	850

<b>Species</b>	<b>Areas</b>	<b>TAC Holdings Cap (pounds)</b>
	5E	888
Silvergray rockfish	3C/D	1,480
	5A/B	2,887
	5C/D	2,620
	5E	1,704
Shortraker rockfish	Coastwide	5,871
Redbanded rockfish	Coastwide	10,530
Rougheye rockfish	Coastwide	26,013
Shortspine Thornyhead	Coastwide	982

7.1.2. Licence Species Temporary and Permanent Quota Caps (Directed Species)

All ZN licences will have annual ITQ caps for some of their directed and non-directed catch. Temporary and permanent reallocations combined up to the species caps listed below will be a permitted.

<b>Species</b>	<b>Areas</b>	<b>Licence Species Cap (pounds)</b>
Canary rockfish	Coastwide	10,000
Redbanded rockfish	Coastwide	80,000
Rougheye rockfish	Coastwide	200,000
Silvergray rockfish	Coastwide	30,000
Shortraker rockfish	Coastwide	100,000
Shortspine Thornyhead	Coastwide	10,000
Quillback, China, Copper and Tiger rockfish	Coastwide	30,000
Yelloweye rockfish	Coastwide	15,000

7.1.3. Quota Holdings Caps (Non-Directed Species)

<b>Species</b>	<b>Areas</b>	<b>Licence Species Cap (pounds)</b>
Dogfish	Coastwide	100,000
Sablefish	Coastwide	15,000

7.1.4. Quota Landings Caps (Non-Directed Species)

Species	Areas	Quota Landings Cap (pounds)				
		7,500 lbs if < 20,000 lbs of quota rockfish landed	10,000 lbs if between 20,000-40,000 lbs of quota rockfish landed	15,000 lbs if between 40,000-60,000 lbs. of quota rockfish landed	20,000 lbs if > 60,000 lbs of quota rockfish landed	
Halibut	Coastwide					
Lingcod	Coastwide	5,000 lbs if < 8,000 lbs of quota rockfish landed	10,000 lbs if between 8,000-20,000 lbs of quota rockfish landed	15,000 lbs if between 20,000-40,000 lbs of quota rockfish landed	20,000 lbs if between 40,000-60,000 lbs of quota rockfish landed	25,000 lbs if > 60,000 lbs of quota rockfish landed
Sablefish	Coastwide	5,000 lbs if < 20,000 lbs of quota rockfish landed	10,000 lbs if between 20,000-40,000 lbs of quota rockfish landed	15,000 lbs if > 40,000 lbs of quota rockfish landed		

## 7.2. Trip Limits

For some species of groundfish caught while fishing Rockfish by Hook and Line (Outside ZN) fishery there will be trip limits:

Species	Trip Limit (pounds)	
Black Rockfish	1,000	
Kelp Greenlings	500	
Other Rockfish	5,000	
Pacific Cod	500	
Skate	6,000	
Sole and Flounder	No limit	
Bocaccio	Landings (round weight) per trip may not exceed:	
	200 pounds where 15,000 pounds or less of quota	200 pounds plus 1% of the amount of quota applicable rockfish landed in excess of 15,000 pounds, to a maximum of

Species	Trip Limit (pounds)	
	applicable rockfish is landed	600 pounds of Bocaccio

**7.3. Fishing Restrictions for ITQ Excess Overage**

Licences that exceed their total directed or non-directed species ITQ holdings by area by more than 30% or 100 pounds (whichever is greater) will be restricted from further fishing activity for the remainder of the fishing year, or until such time that sufficient ITQ is reallocated to the licence to cover any overages. Licences with catch that exceeds their annual ITQ species caps will be restricted from fishing for the remainder of the fishing season.

Licenses that do not reconcile excess overages by February 20, 2015, will carry excess overages into the new season (see section 7.6.2). If a licence remains in excess overage following initial allocations of ITQ, the licence will be restricted from fishing until temporary reallocations for the 2015/2016 season are processed in mid-March, 2015.

**7.4. Reallocation of Directed and Non-Directed Species ITQ**

The following guidelines for the reallocation of directed and non-directed species ITQ will be in effect for the 2014/2015 ZN fishery.

- 7.4.1. Subject to annual ITQ caps and sector caps, upon application, licence eligibility holders will be permitted to make unlimited temporary reallocations of directed and non-directed species ITQs. A “Temporary Reallocation Request for Integrated Groundfish Fisheries” must be faxed to the GMU and, if approved, a licence amendment will be issued to reflect new ITQ amounts. The most current licence amendment must be onboard when fishing.
- 7.4.2. The 2014/2015 ZN licence must be issued prior to any ITQ being reallocated.
- 7.4.3. Request for temporary reallocation requests for the 2014/2015 season must be received by 16:00 hours Pacific Time on February 20, 2015 in order to be processed.
- 7.4.4. For permanent ITQ reallocations, licence eligibility holder(s) of record must complete and sign a “Permanent Reallocation Request for Integrated Groundfish Fisheries.” For temporary reallocations of ITQ only one licence eligibility holder is required to sign the “Temporary Reallocation Request for Integrated Groundfish Fisheries” form.
- 7.4.5. Requests for permanent reallocation of ITQ must be received by 16:00 hours local time on February 2, 2015 in order to be processed.

- 7.4.6. Permanent reallocations of ITQ will be expressed as a percentage of the TAC, and will be added to the receiving licence eligibility's percentage of the TAC.
  - 7.4.7. ITQ that has already been caught or deemed "fished" cannot be reallocated.
  - 7.4.8. The minimum quantity of ITQ that may be reallocated is one pound.
  - 7.4.9. Temporary reallocations are only valid for the current fishing season.
  - 7.4.10. Reallocations for the 2014/2015 season will not be processed until 8:00 hours local time March 15, 2014.
- 7.5. Rules for Carryover of ITQ Overage and Underage**

**7.5.1. Carryover of Directed and Non-Directed Species ITQ Underage**

Licences will be permitted to carryover uncaught ITQ up to 30% of their total directed or non-directed species (except Sablefish and dogfish) ITQ by area at the end of the 2014/2015 fishing season. This amount includes any reallocations made during the year. This underage poundage will be added to the licence's ITQ holdings in 2015/2016. Any amount above the 30% will be forgone.

For Sablefish, licences will be permitted to carryover uncaught ITQ up to 15% of their Sablefish ITQ by area at the end of the 2014/2015 fishing season. This amount includes any reallocations made during the year. This underage poundage will be added to the licence's ITQ holdings in 2015/2016. Any amount above the 15% will be forgone.

For dogfish, licences will be permitted to carryover uncaught ITQ up to 10% of their dogfish ITQ by area at the end of the 2014/2015 fishing season. This amount includes any reallocations made during the year. This underage poundage will be added to the licence's ITQ holdings in 2015/2016. Any amount above the 10% will be forgone.

**7.5.2. Carryover of Directed and Non-Directed Species ITQ Overage**

A licence's catch may be up to 30% over the total directed or non-directed species ITQ (this amount includes any reallocations made during the year) or 100 pounds, whichever is greater. For the proper conservation and management of the resource, the amount of the overage will be deducted from the licence's ITQ in the 2015/2016 fishing season and the overage will count against the annual ITQ caps for the following season.

**8. DUAL FISHING**

Dual fishing means fishing for commercial and First Nation food social and ceremonial (FSC) purposes on the same fishing trip. Dual fishing is authorized through licence conditions for commercial groundfish fisheries. Vessel masters considering dual fishing

are responsible for reviewing their licence conditions to ensure they are aware of the dual fishing requirements.

Before hailing out on a dual fishing trip, the vessel master must obtain a dual fishing designation certificate from a designating First Nation that has a communal licence authorizing the harvest of groundfish. The designation certificate must contain all of the information set out in the conditions of licence. If any of the information is missing the designation certificate will not be considered valid and the vessel master cannot dual fish.

A designation certificate template is available on the DFO website: <http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/index-eng.html>. Aboriginal organizations may issue their own designation certificate as long as the required information is included.

When hailing out, the vessel master must notify the hail service provider that they will be dual fishing, provide the name of the First Nation that issued the designation certificate, and provide the unique designation certificate identification number. The vessel master must carry the designation certificate on board the vessel at all times during the fishing trip. The vessel master must record in the comments section and the retained column of the Integrated Groundfish Fishing Log the fish retained by species under the communal licence by set.

When hailing in, the vessel master must provide an estimate of fish in poundage and by species caught under the authority of the designation certificate.

Unless the designating First Nation requests to have the FSC fish landed and validated at a different location, all fish from the trip must be landed at the same place and validated by the designated groundfish dockside observer. At the time of offload, the vessel master must provide a valid designation certificate to the dockside observer. If one is not provided, all catch from the trip will be considered commercial catch until the completion of a review by the Groundfish Management Unit and discussion with the vessel master. Furthermore, if FSC fish are landed at a different location than the commercial catch, an FSC validation record containing the verified weight and the number of pieces by species must be completed by a fisheries representative of the designating First Nation organization. The vessel master must obtain a copy of the FSC validation record and provide it to the designated groundfish dockside monitor at the time of the commercial offload.

## **9. CLOSURES**

### **9.1. Strait of Georgia Sponge Reef Voluntary Avoidance Measures**

DFO continues to move forward in the formal protection of the identified glass sponges reefs found with the Strait of Georgia. Currently, formal closure of bottom contact fishing activities on these reefs is under consideration for possible inseason implementation. In the interim and in support of the shared objective for

providing formal protection of the glass sponge reefs, the Department is requesting that all harvesters using bottom contact fishing gear voluntarily avoid known glass sponge reefs identified in the Strait of Georgia. DFO has embarked in an ecological risk assessment process whereby anticipated protection measures will be developed in partnership with First Nations, commercial and recreational industries and other stakeholders during the 2014 season. Coordinates for the voluntary avoidance reef areas and illustration of location of the known Strait of Georgia Glass Sponge Reefs can be found in Section 8.5 of the 2014/15 Groundfish Trawl Commercial Harvest Plan.

## 9.2. Rockfish Conservation Areas

Effective February 1, 2007 a suite of Rockfish Conservation Areas (RCAs) came into effect. Designation of the final 164 closed areas is a result of over three years of consultation with many stakeholders. The RCAs can also be downloaded from the Department's internet site at:

[http://www.pac.dfo-mpo.gc.ca/recfish/Restricted\\_Areas/RCAs/default\\_e.htm](http://www.pac.dfo-mpo.gc.ca/recfish/Restricted_Areas/RCAs/default_e.htm)

## 9.3. Gwaii Haanas National Marine Conservation Area

Harvesters are reminded that the zones within the Gwaii Haanas National Marine Conservation Area Reserve as described below are closed to fishing. For background information see IFMP section 8.4.

Areas closed are described below:

All tidal waters of Gwaii Haanas National Marine Conservation Area Reserve and Haida Heritage Site:

### 9.3.1. Burnaby Narrows

Those waters of Subareas 2-13 and 2-16 inside a line:

commencing at	52°23.071 N	131°20.427 W
then east to	52°23.079 N	131°22.79 W
following the southern shoreline of Kat Island east to	52°23.104 N	131°22.193 W
then east to	52°23.303 N	131°21.277 W
following the western shoreline of Burnaby Island south to	52°20.982 N	131°20.427 W
then west to	52°20.733 N	131°21.063 W
then north following the eastern shoreline of Moresby Island back to the point of commencement.		

### 9.3.2. Louscoone Estuary

Those waters of Subareas 2-33 and 2-34 north of a line:

drawn from	52°11.828 N	131°15.662 W
then true east to	52°12.269 N	131°14.579 W

### 9.3.3. Flamingo Estuary

Those waters of Subarea 2-37 north of a line:

drawn from	52°14.523 N	131°22.24 W
then southeast to	52°14.245 N	131°21.481 W

9.3.4. Gowgaia Estuary

Those waters of Subarea 2-41 east of a line:

drawn from	52°24.947 N	131°32.13 W
then southeast to	52°24.233 N	131°32.021 W

9.3.5. Cape Saint James

Those waters of Subareas 2-19, 102-3, 130-3 and 142-1 inside a line:

commencing at	51°56.509 N	131°01.547 W
then southwest to	51°55.499 N	131°02.468 W
then southeast to	51°52.493 N	130°57.907 W
then south to	51°51.655 N	130°57.780 W
then southeast to	51°50.395 N	130°56.561 W
then northeast to	51°51.054 N	130°54.702 W
then north to	51°53.826 N	130°55.640 W
then northwest to	51°58.517 N	130°59.468 W
then west to	51°58.727 N	131°00.620 W

and then following the southern shore of Kungit Island to the point of commencement.

9.3.6. SGang Gwaay

Those waters of Subareas 2-31 and 142-1 inside a 3 km radius from the centre point on Anthony Island located at:

52°05.655 N	131°13.178 W
-------------	--------------

**9.4. Year-Round Closures**

The following areas will be closed February 21, 2014 to February 20, 2015 to reduce harvesting pressure and provide improved access for First Nations food, social and ceremonial purposes.

9.4.1. Haida Gwaii

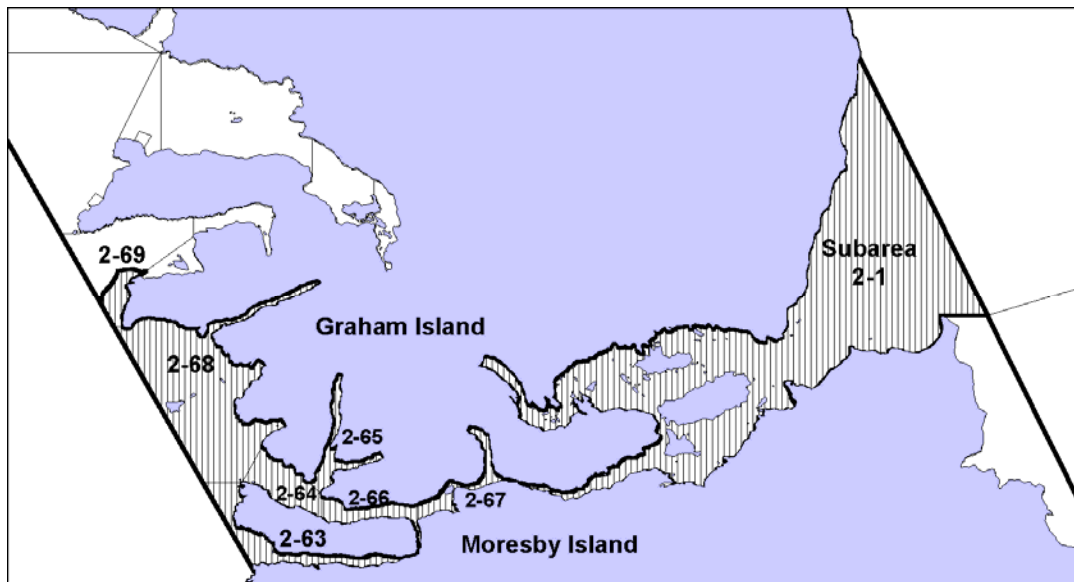
Subareas 2-1, 2-31 to 2-37, 2-63 to 2-68; and that portion of Subarea 2-69 from Hunter Point to Fame Point shoreward of the coordinates laid out below. These areas are closed year round for all commercial groundfish fisheries. The intent of the closure is to reduce harvesting pressure on localized stocks of fish and to provide improved access for First Nations food, social and ceremonial purposes.

Subarea 2-69:

The portion of Subarea 2-69 inside a line:		
that begins at Fame Point	53°17.060' N	132°42.415' W
then to	53°17.060' N	132°43.800' W
then to	53°16.350' N	132°44.700' W



then abutting the boundary of 2-68	53°15.208' N	132°43.597' W
Then to Hunter Point	53°15.208' N	132°42.984' W



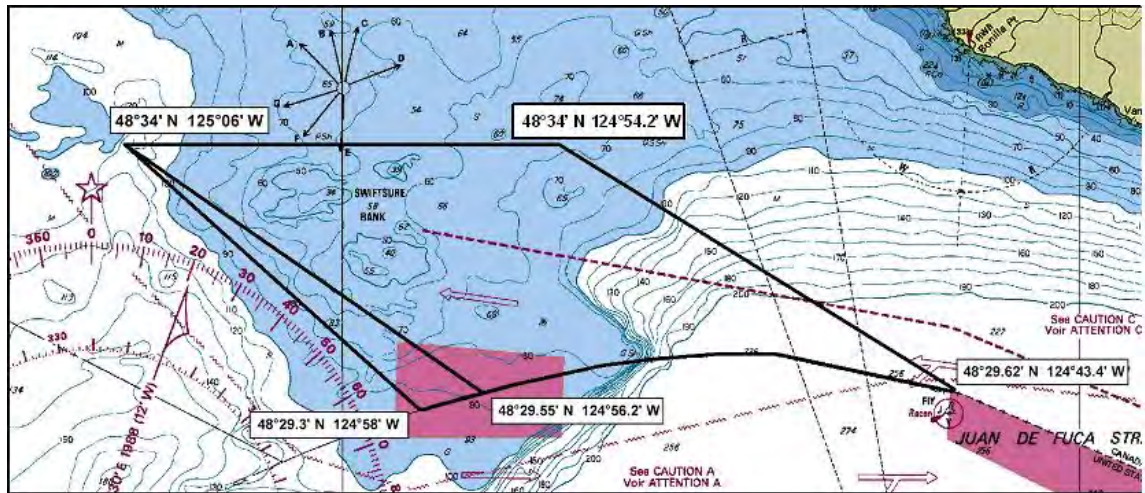
9.4.2. Swiftsure Commercial

Those portions of Subareas 121-1 and 121-2 inside a line:  
 that begins at 48°34.0' N 125°06.0' W  
 then true east to 48°34.0' N 124°54.2' W  
 then to 48°29.62' N 124°43.4' W  
 then following the International

Boundary between Canada and the United States of America to then to the beginning point. 48°29.3' N    124°58.0' W

9.4.3. Swiftsure Recreational

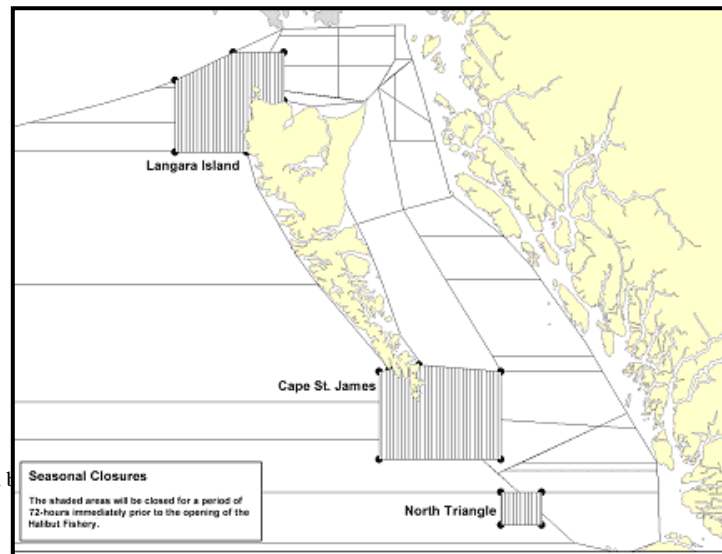
Those portions of Subareas 121-1 and 121-2 inside a line:  
 that begins at 48°34.0' N    125°06.0' W  
 then true east to 48°34.0' N    124°54.2' W  
 then to 48°29.62' N    124°43.4' W  
 then following the International Boundary between Canada and the United States of America to 48°29.55' N    124°56.2' W  
 then to the beginning point.



9.5. Seasonal Closures

These closures go into effect 72 hours prior to the halibut opening each year for all commercial hook and line fishing vessels. Their intent is to ensure a fair and orderly opening for the Halibut fishery.

Coast-wide Map of 72-Hour “Halibut Opening” Closure



Those portions of Area 101 that are:  
east of the meridian passing through 134°00.0' west longitude;  
west of the meridian passing through 132°40.0' west longitude; and  
south of the parallel passing through 54°30.0' north latitude.

Those portions of Subareas 102-2, 102-3, 108-2, 130-2, 130-3 and 142-1 that are  
inside a line that:

that begins at	52°11.0' N	131°22.16' W
then westerly to	52°10.0' N	131°30.0' W
then true south to	51°30.0' N	131°30.0' W
then true east to	51°30.0' N	130°00.0' W
then true north to	52°10.0' N	130°00.0' W
then westerly to	52°13.0' N	131°00.3' W

Those portions of Area 111 and Subarea 130-1 that lie inside a line that:

begins at	51°15.0' N	130°00.0' W
then true east to	51°15.0' N	129°30.0' W
then true south to	51°00.0' N	129°30.0' W
then true west to	51°00.0' N	130°00.0' W
then true north to the beginning point.		

**Appendix 6: Halibut Commercial Harvest Plan**

**TABLE OF CONTENTS**

1.	MANAGEMENT UPDATES & CHANGES FOR 2014/2015 .....	3
1.1.	In-Season Changes/Updates .....	3
1.2.	Species of Interest Program Continuation .....	3
1.3.	Discontinuation of Season Extension .....	3
1.4.	At-Sea Observers and Electronic Monitoring.....	3
1.5.	Licensing Service Changes – Effective in 2014 .....	3
1.6.	Big skate and Longnose skate allocation process.....	4
1.7.	Continuation of Pilot Bocaccio Rebuilding Measures.....	5
1.8.	Logbook Effort Reporting Reminder.....	5
1.9.	Area Coordinate Formats in the IFMP .....	5
1.10.	Use of Fish for Research Purposes .....	5
2.	SPECIES.....	6
3.	GEAR .....	6
4.	QUOTAS AND OPEN TIMES .....	6
4.1.	Open Times.....	6
4.2.	Fishing Areas .....	6
4.3.	Commercial and Recreational Total Allowable Catch .....	7
5.	LICENSING .....	8
5.1.	Licence Category .....	8
5.2.	Licence Fees .....	8
5.3.	Licence Application and Issuance .....	8
5.4.	Licence Amendment .....	9
5.5.	Licence Documents.....	9
5.6.	Vessel Replacement.....	9
5.7.	Temporary Vessel Replacement .....	10
6.	SECTOR RULES .....	10
6.1.	4B (Strait of Georgia) Halibut Fishery .....	10
6.2.	Rockfish ITQ .....	11
6.3.	Annual ITQ Caps .....	11
6.4.	Trip Limits .....	13
6.5.	Fishing Restriction for exceeding an ITQ.....	14
6.6.	Reallocation of Directed and Non-Directed Species ITQ .....	14
6.7.	Rules for Carryover of Quota Overage and Underage .....	15
7.	BAIT.....	16
8.	COMBINED HALIBUT AND SABLEFISH FISHING.....	16
9.	DUAL FISHING .....	16
10.	RECREATIONAL FISHING.....	17
11.	CLOSURES.....	17
11.1.	General.....	17
11.2.	Rockfish Conservation Areas .....	19
11.3.	Gwaii Haanas National Marine Conservation Area .....	19

THIS PAGE INTENTIONALLY BLANK

## **1. MANAGEMENT UPDATES & CHANGES FOR 2014/2015**

### **1.1. In-Season Changes/Updates**

In-season updates are available on the Fishery Notice website at: <http://www-ops2.pac.dfo-mpo.gc.ca/fns-sap/index-eng.cfm>.

In-season Sector Catch and Sector Cap summaries are updated daily and can be found at: <http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/index-eng.htm>.

### **1.2. Species of Interest Program Continuation**

The species of interest pilot program, which started in 2011, aims to provide harvesters feedback on how well the commercial groundfish integrated logbook is being completed for skates, seabirds, marine mammals, and sharks. During the pilot program, harvesters have made improvements in the accurate recording of skates; however a continued improvement on the recording of sharks, mammals, and seabirds is required. Beginning in the 2013/2014 season, Big Skate and Longnose Skate were incorporated into the testable portion of logbook audits (i.e., reporting of these two species of interest will impact audit trip scores and could result in a 100% review of fishing trips if misreported). Other species of interest (sharks, marine mammals, and seabirds) will continue to be tested in the Species of Interest section of the logbook audit, and misreporting of these species will be reported to individual harvesters and the Fisheries and Oceans Canada's (DFO) Electronic Monitoring Audit Review Board. Accurate reporting of all shark, mammal, and seabird encounters is required to assess the impact of fisheries on these species. Please ensure vessel masters and crew are aware of this program.

### **1.3. Discontinuation of Season Extension**

As in 2012 and 2013, fishing season extensions beyond the regular commercial season closing date of February 20, 2015, will not be available.

### **1.4. At-Sea Observers and Electronic Monitoring**

Beginning April 1, 2013, DFO determined it would no longer share the costs of the at-sea observer or electronic monitoring programs. The commercial groundfish fishing industry will now enter directly into contracts with at-sea observer service providers that are certified by the Canadian General Standards Board and designated by DFO. Interested companies will apply to the Canadian General Standards Board to become certified, and then, to the Department to become designated as a service provider for at-sea observer services beginning on April 1, 2013. Industry will also enter directly into contracts with electronic monitoring service providers that are approved by the Department as meeting the requirements for the provision of electronic monitoring services set out in the groundfish licence conditions and Appendix 2 of the groundfish IFMP.

### **1.5. Licensing Service Changes – Effective in 2014**

Fisheries and Oceans Canada introduced the web-based National Online Licensing System (NOLS) in the spring of 2013. This web-based system replaces in-person counter service at Pacific Fishery Licensing Units (PFLU). Fish harvesters/Licence Holders/vessel owners will now use the new online system to view, pay for and print their commercial fishing licences, licence conditions and/or receipts.

Fish harvesters must log into the National Online Licensing System to register and activate their accounts, using the DFO Passcode that has been mailed to them, in order to pay the fees and request issuance of a licence.

Licence renewal and payment of fees is mandatory on an annual basis prior to the expiry date of each fishery, in order to maintain the eligibility to be issued the licence in the future. Please note, the licence eligibility will cease if it is not renewed annually.

In early 2014, the need to submit the applicable forms will continue to be necessary where a designated vessel is required. Licensing forms will no longer collect information on “individuals designated to request amendments”. The Groundfish Management Unit will be collecting “individuals designated to request amendments” on their licence amendment forms. In addition, for Halibut licence eligibilities, PFLUs will no longer collect information on whether fishing is “intended” or “not intended” as full licence conditions will be provided regardless of whether fishing is taking place or not. The applicable forms will be sent to licence eligibility holders by mail and the payment required to be processed through the National Online Licensing System.

Upon the Department receiving the required payment, documentation and information, the licence will be issued and notification will be sent via email to advise Licence Holders/vessel owners that a change has been made to the licence holder’s online account. The licence documents, licence conditions and receipt will be available to be printed at that time.

Later in 2014, a “request” feature to collect designated vessel details will be available through the National Online Licensing System and the applicable forms once necessary will no longer be required. Halibut licence eligibility holders will then need to submit the designated vessel information online. Until such time, licence holders will continue to submit the form to the Pacific Fishery Licence Unit while making the fee payments through the National Online Licensing System.

For transactions that are not yet available in the National Online Licensing System (e.g. Vessel replacements and nominations), licensing services will continue to be available either through telephone (1-877-535-7307), e-mail ([fishing-peche@dfo-mpo.gc.ca](mailto:fishing-peche@dfo-mpo.gc.ca)), or fax (604-666-5855). Please be sure to visit the Pacific Region Licensing website and subscribe to fishery notices for updates on the National Online Licensing System and licensing services: <http://www.pac.dfo-mpo.gc.ca/fm-gp/licence-permis/index-eng.html>.

Information on the new system may be found on the DFO internet site at: <http://www.dfo-mpo.gc.ca/fm-gp/sdc-cps/licence-permis-eng.htm>.

## **1.6. Big skate and Longnose skate allocation process**

Consistent with the DFO's direction of explicit and transparent allocations and to further promote stewardship of skate species, formal discussions between the DFO and commercial groundfish fishery sectors were initiated in 2013 to change the commercial skate fishery management and to formulate sector allocations for Big and Longnose skate. As result of DFO's initiation of these discussions all commercial skate fishers are hereby notified that catches of Big and Longnose Skate occurring in the 2013 fishing season and beyond will not be used when determining future groundfish sector catch allocations.

This action is taken to reduce the impact of speculative fishing that may occur as a result of discussions on sector allocations and management measures for both skate species. Advice on final sector allocations and new management measures will be formulated through extensive consultations with fishing interests.

### **1.7. Continuation of Pilot Bocaccio Rebuilding Measures**

Based on updated science information, DFO introduced Bocaccio catch reduction targets from 2012 catch levels of approximately 137 tonnes (inclusive of trawl, groundfish hook and line, salmon troll, and recreational sectors) to 75 tonnes over a three year period, in order to support stock rebuilding. Subsequent to the introduction of these measures, in November 2013, the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) reassessed Bocaccio and recommended it for listing under the Species At Risk Act (SARA) as "endangered".

### **1.8. Logbook Effort Reporting Reminder**

Effort data within the commercial groundfish integrated logbook is often incomplete or captured inaccurately. Please be advised that accurate recording of fishing effort in logbooks is a condition of licence and logbook data is an important component for assessment of stocks. Please ensure that "GEAR ID" and "Gear/Skate Details" fields are accurately completed by following instructions provided in the groundfish integrated logbook instructions.

### **1.9. Area Coordinate Formats in the IFMP**

Area coordinates throughout the IFMP (e.g., Groundfish Management Areas, Rockfish Conservation Areas, Marine Protected Areas, etc.) may be provided in several different formats. The format provided in the IFMP is typically consistent with the format provided in the regulation describing the specified area. You are reminded that it is the responsibility of the vessel master to ensure the correct coordinate format is used during navigation and in navigation software.

### **1.10. Use of Fish for Research Purposes**

For the 2014/2015 fishing season DFO has notionally set aside 27.22 tonnes (60,000 fresh, dress, head-off pounds) of the commercial Pacific Halibut total allowable catch (TAC), for use in funding groundfish science projects supported by both DFO and



commercial Pacific Halibut stakeholders. Please refer to section 4.3, Commercial and Recreational Total Allowable Catch, for details.

## **2. SPECIES**

The following species are permitted to be retained under Part 1 and Schedule II, Part 2 of a valid Halibut licence eligibility with the appropriate amendment.

Halibut (*Hippoglossus stenolepis*)

Rockfish (*Sebastes spp. and Sebastolobus spp.*)

Lingcod (*Ophiodon elongates*)

Spiny Dogfish (*Squalus suckleyi*)

Sablefish (*Anoplopoma fimbria*)

Skate (*Rajidae*)

Sole and Flounder (*Pleuronectiformes other than Hippoglossus stenolepis*)

Pacific cod (*Gadus macrocephalus*)

## **3. GEAR**

Hook and line gear.

No longline gear shall be left set and/or unattended during a vessel's return to port. Vessel masters shall retrieve, and have on board, all longline gear prior to delivering their catch to port.

## **4. QUOTAS AND OPEN TIMES**

### **4.1. Open Times**

The 2014 Halibut fishery will commence 12:00 hours, March 8, 2014 and will close at 12:00 hours, November 7, 2014. Following the closure of the fishery, all fish caught under the authority of a Halibut licence eligibility, must be landed and validated by a DFO-designated groundfish dockside observer no later than 12:00 hours, November 14, 2014.

The retention of Lingcod by hook and line gear will be permitted from April 1 to 23:59 hours November 14, 2014. Accordingly, all Lingcod must be landed and validated by a DFO-designated groundfish dockside observer no later than 23:59 hour, November 21, 2014.

### **4.2. Fishing Areas**

Subject to closures described in section 10 of this harvest plan and variation orders, the waters in which commercial Halibut fishing is permitted to be carried out are:

Areas 1 to 11, 21, 23 to 27, 101 to 111, 121, 123 to 127, 130, 142, Subarea 12-14, (Groundfish Management Areas 3C, 3D, 5A, 5B, 5C, 5D, and 5E).

To harvest Pacific Halibut in subareas 12-1 to 12-13, 12-15 to 12-48, 19-3 to 19-5 and Area 20 (Groundfish Management Area 4B), an amendment to the Halibut conditions of licence is required from the Halibut Coordinator; please see section 6.1 of this harvest plan.

Subject to variations orders, while fishing under authority of a Halibut licence eligibility legal-sized Sablefish may be retained from any area or subarea open to fishing under the authority of a Halibut commercial licence eligibility, except Groundfish Management Area 4B.

When hailed out on a combination Halibut and Sablefish trip, a vessel can only fish in areas open to directed Sablefish fishing (see section 8 of this harvest plan).

#### **4.3. Commercial and Recreational Total Allowable Catch**

For 2014, the International Pacific Halibut Commission (IPHC) recommended a Canadian commercial and recreational catch limit of 3,107.11 tonnes (all Halibut weights are fresh, dressed, head-off weight) for Area 2B, Canada's Pacific waters.

For commercial/recreational allocation purposes, the total allowable catch (TAC) was adjusted to 3,197.83 tonnes to include commercial wastage of fish over 66 cm in length (totalling 90.72 tonnes). Commercial wastage is defined as fish over 66 cm in length that are captured but not landed by commercial fisheries. This includes discarded Pacific Halibut, as well as an estimated number of fish that are captured by lost and abandoned fishing gear. The amount of wastage is estimated annually via the IPHC stock assessment process. The adjusted TAC is allocated between the commercial (85%) and the recreational (15%) fisheries, and the commercial wastage is removed from the commercial TAC.

Section 10 of the Fisheries Act permits the Minister of Fisheries and Oceans to allocate fish for the purpose of financing scientific and fisheries management activities. In 2014 up to 27.22 tonnes of Halibut has been notionally allocated from the commercial TAC to support (1) a synoptic longline survey, and (2) an additional technician on the IPHC setline survey in Area 2B through a joint project agreement between the Pacific Halibut Management Association and the Department.

In 2014 the Halibut TAC has been allocated as:

Food, Social, and Ceremonial*	183.71 tonnes	405,000 pounds
Use of Fish allocation; longline synoptic survey and IPHC survey technician	27.22 tonnes	60,000 pounds
Commercial TAC **	2,600.24 tonnes	5,732,500 pounds
Recreational TAC	479.68 tonnes	1,057,500 pounds
Total Allowable Catch ***	3290.85 tonnes	7,255,000 pounds

\* Excludes treaty allocations relinquished from the commercial TAC totalling 12.83 tonnes.

\*\* Includes treaty allocations relinquished from the commercial TAC totalling 12.83 tonnes. These treaty allocations are not available to the commercial fishery.

\*\*\* Excludes carryover of overages and underages from the previous season (see section 6.7 of this harvest plan). Excludes permitted Halibut mortality from the groundfish Trawl fishery (see appendix 8 of the groundfish IFMP).

## 5. LICENSING

### 5.1. Licence Category

A commercial Halibut category L or communal commercial Halibut category FL licence eligibility is required to participate in the directed commercial Pacific Halibut fishery.

Category L Halibut eligibilities are limited entry and vessel-based. Category FL

eligibilities are limited entry and party-based; a First Nations group is the licence eligibility holder and the eligibility must be designated to a commercially registered fishing vessel that meets established length restrictions.

Vessels authorized to fish under the authority of a Halibut licence eligibility are also permitted to catch and retain other groundfish species by hook and line gear as outlined in conditions of licence. These vessels are also permitted to catch and retain species described in Schedule II, Part 2 of the *Pacific Fishery Regulations, 1993*, catch and retain other groundfish species, transport non-groundfish species caught by other vessels and be designated to fish under the authority of a category Z licence.

### 5.2. Licence Fees

The commercial Halibut licence fee is based on the following formula: \$310 multiplied by the number of tonnes of Halibut initially allocated to the licence eligibility, less 40 percent of that product, up to a maximum reduction of \$1000. There is no annual licence fee for communal commercial category FL licences.

### 5.3. Licence Application and Issuance

Category L licence renewal must be applied for and issued annually regardless of whether fishing will take place or not. This application must be submitted by February 20, 2015.

The licence eligibility holder or an authorized representative must sign the applicable form. If the licence eligibility holder is a company or aboriginal group, the PFLU must have on record a copy of BC Company Summary and/or a Confirmation of Signing Authorities form listing the signing authorities.

Prior to annual licence issuance, vessel owners/licence eligibility holders are required to:

- a) Meet any Ministerial conditions placed on the licence eligibility.
- b) Ensure any conditions of the previous year's licence.

#### **5.4. Licence Amendment**

The Halibut licence eligibility must be issued prior to the processing of a request for licence amendment or reallocation of Individual Transferable Quota (ITQ). The vessel owner/master must have on board a valid Halibut licence amendment prior to fishing.

This amendment outlines the total amount of fish by species that the vessel can land for the fishing season. Without this amendment the vessel is not permitted to catch, retain or land any fish.

A "Request for Licence Amendment" must be completed by the vessel owner/licence eligibility holder or the designated agent and faxed to the Groundfish Management Unit at (604) 666-8525. Request forms and all other applicable forms are available online at: <http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/form-eng.htm>

#### **5.5. Licence Documents**

Halibut licence eligibilities are valid from the date of issue to February 20, 2015.

Replacements for lost or destroyed licence documents may be obtained by reprinting the licence documents through the NOLS.

#### **5.6. Vessel Replacement**

The owner(s) of a category L licensed Halibut vessel may make an application to replace the commercial fishing vessel. Both the replacement vessel and the vessel being replaced must have a survey on file with the PFLU or submitted with the vessel replacement application. Vessels must be surveyed according to the Department guidelines.

Communal commercial licenses are not eligible for vessel replacement as the licence eligibility is party-based and is not held by the vessel but designated to a vessel annually.

A single category L Halibut licence eligibility may be placed on a vessel that does not hold another vessel based licence eligibility up to the overall length (OAL) of the original vessel, (the vessel licensed as at January 31, 1993).

A single category L Halibut licence eligibility may be placed on a vessel that does hold another vessel based licence eligibility, up to the maximum vessel length (MVL) of the Halibut licence eligibility; the MVL being the length of the original vessel licensed as at January 31, 1993, plus 25 feet.

A Halibut licence eligibility may be split from other licence eligibilities and placed on a vessel that does not exceed the MVL, as long as the replacing vessel holds another vessel based licence eligibility.

Where the replacing vessel has a category C, Schedule II species licence eligibility, the C licence eligibility is relinquished (permanently retired), except when the placement is temporary, then the C licence eligibility is held until the Halibut licence eligibility is permanently placed on a vessel.

When a Schedule II licence eligibility is relinquished from a vessel with an OAL less than the MVL but greater than the OAL of the vessel licensed as at January 31, 1993, in future, the licence eligibility may be placed on an unlicensed vessel up to the OAL of the vessel that relinquished the C licence eligibility. There is no change to the MVL for the Halibut licence eligibility.

Vessels may hold more than one Halibut licence eligibility in a year, but not at the same time. Vessels may not fish Halibut under the authority of more than one licence eligibility a year. When vessel owners wish to swap two married Halibut licence eligibilities, neither licence may exceed the MVL assigned to the licence eligibility.

## **5.7. Temporary Vessel Replacement**

The temporary placement of Halibut licence eligibilities is only allowed when the vessel to be replaced becomes a total loss. Temporary replacement vessels may not have harvested Halibut in the current fishing year and may not exceed the MVL of the Halibut licence eligibility. If a Halibut licence eligibility is temporarily split from other vessel licence eligibilities, the remaining eligibilities may not be placed on a third vessel.

## **6. SECTOR RULES**

### **6.1. 4B (Strait of Georgia) Halibut Fishery**

Vessels participating in a directed Halibut fishery in area 4B are accountable for all species and are responsible for any Pacific Halibut, Spiny Dogfish, Yelloweye rockfish, and Quillback, Copper, China and Tiger rockfish caught while fishing area 4B

A non-transferable allocation of Yelloweye rockfish is provided to vessels who apply to fish Halibut in area 4B waters, thus area 4B fishers are not required to acquire quota to cover the catch of Yelloweye. However, vessels are restricted to annual caps of 200 pounds (round weight) of Yelloweye in area 4B.

Subject to variations orders, while fishing under authority of a Halibut licence eligibility legal-sized Sablefish may not be retained from Groundfish Management Area 4B.

No vessel may hold quota holdings in excess of the annual ITQ caps.

#### **6.1.1. Licence Species Temporary Quota Caps**

<b>Species</b>	<b>Areas</b>	<b>Licence Species Cap (round weight pounds)</b>
Quillback, Copper, China, and Tiger rockfish	4B	200
Dogfish	4B	1,000

Vessels fishing Halibut in 4B are subject to trip limits for:

- (1) Canary rockfish, Silvergray rockfish, Redbanded rockfish, Rougheye rockfish, Shortraker rockfish, Shortspine thornyheads, and other rockfish (as set out in Appendix 1 of the commercial Halibut conditions of licence): the quantity of rockfish landed shall not exceed 50 pounds (23 kg) (fresh, round pounds).
- (2) Lingcod caught and retained from areas 12-1 to 12-13, and 12-15 to 12-48, in any one fishing trip shall not exceed 400 pounds (181 kg) (fresh, round pounds). Lingcod may not be retained from any other area.

The Department will closely monitor the fishing activity in the 4B area, and if the Yelloweye TAC for Area 4B is reached, the fishery in this area will be closed. Once individual vessels have reached their annual limits they will be restricted from further directed Halibut fishing in Area 4B for the remainder of the season.

Those vessels wishing to participate in this fishery are required to apply for an amendment to the Halibut conditions of licence by contacting the Halibut Coordinator.

## 6.2. Rockfish ITQ

Each Halibut licence eligibility is allocated ITQ by area for the following rockfish species: Yelloweye, Quillback, Copper, China and Tiger, Canary, Silvergray, Rougheye, Redbanded, Shortraker, and Shortspine Thornyhead. Rockfish ITQ are calculated by multiplying the species' area TAC by the Halibut ITQ percentage on a licence eligibility at the start of the season (before any Halibut overage/underage is added). Rockfish ITQ will be subject to temporary reallocation guidelines and ITQ caps outlined below.

## 6.3. Annual ITQ Caps

All Halibut licence eligibilities are subject to annual ITQ caps for directed and non-directed species. Temporary reallocations of ITQ, up to the ITQ caps listed below, will be permitted. No vessel may hold quota holdings in excess of the annual ITQ caps.

### 6.3.1. Licence Species Temporary Quota Caps\*

<b>Species</b>	<b>Areas</b>	<b>Licence Species Cap (fresh, round pounds)</b>
----------------	--------------	--

Rougheye rockfish	Coastwide	60,000
Quillback, Copper, China and Tiger rockfish	Coastwide	7,000
Silvergray rockfish	Coastwide	8,000
Canary rockfish	Coastwide	3,500
Shortspine Thornyhead	Coastwide	16,000
Lingcod	Coastwide	30,000
Sablefish	Coastwide	25,000
Redbanded rockfish	Coastwide	12,000

\*See section 6.1.1 of this appendix for quota caps applicable to area 4B.

### 6.3.2. Quota Landings Temporary Quota Caps

Species	Areas	Quota Landings Caps (fresh, round pounds)		
Yelloweye rockfish	Coastwide	7,000 if 0 < Halibut* landed < 28,663	9,000 if 28,663 < Halibut* landed < 57,325	10,000 if > 57,325 of Halibut* landed
Shortraker rockfish	Coastwide	8,000 if 0 < Halibut* landed < 28,663	16,000 if 28,663 < Halibut* landed < 57,325	20,000 if > 57,325 of Halibut* landed
		Shortraker caps increase in 2,000 blocks up to 20,000, once a 2,000 block is caught		
Redbanded rockfish	Coastwide	Caps increase in 4,000 blocks up to 24,000, once a 4,000 block is caught		
Rougheye rockfish	Coastwide	Caps increase in 8,000 blocks up to 60,000, once a 8,000 block is caught		
Shortspine thornyhead	Coastwide	Caps increase in 4,000 blocks up to 16,000, once a 4,000 block is caught		
Lingcod	Coastwide	Caps increase in 5,000 blocks up to 30,000, once a 5,000 block is caught		
Sablefish	Coastwide	Caps increase in 5,000 blocks up to 25,000, once a 5,000 block is caught		

\*Fresh, dressed, head-off weight

Note: 28,663 = 0.5% of Commercial Halibut TAC; 57,325 = 1.0% of commercial Halibut TAC

### 6.3.3. TAC Holdings Quota Caps

The maximum quantity of Halibut ITQ that can be held by a vessel is 1.0 percent of the season's TAC (including both permanent and temporary transfers, but not including any carryover of ITQ underage from the previous year). However,

vessels that fished greater than 1.0% of the TAC in any year from 1993 to 1998 are allowed to hold quota up to their individual maximum. With the 2014/2015 commercial TAC of 2,600.24 tonnes (5,732,500 pounds), the maximum poundage that may be held in permanent and temporary quota by a vessel for 2014/2015 is 26.00 tonnes (57,325 pounds). Underages are excluded from the maximum TAC Holdings Quota Cap.

The minimum quantity of Halibut ITQ that must be held permanently by a vessel is 0.011494% of the commercial Halibut TAC. With the 2014/2015 commercial TAC of 2,600.24 tonnes (5,732,500 pounds), the minimum poundage that must be permanently held by a vessel for 2014/2015 is 0.30 tonnes (659 pounds). The minimum can be temporarily reallocated during the year.

#### 6.4. Trip Limits

Trip limits for non-directed species of groundfish caught while fishing Halibut:

Species	Trip Limit (fresh, round pounds)	
Yelloweye rockfish	Landings may not exceed 30% of Halibut* landed per trip, or 700 pounds landed round weight, whichever is greater	
Sablefish	Landings may not exceed 22% of Halibut* landed per trip, or 700 pounds landed round weight, whichever is greater	
Lingcod by longline gear	Landings may not exceed 75% of Halibut* landed per trip, or 700 pounds landed round weight, whichever is greater	
Lingcod by hook and line gear other than longline gear (i.e., troll and jig only)	No limit	
“Other Rockfish,” as set out in Appendix 1 in the conditions of licence, including Bocaccio.	5,000 pounds	
Bocaccio	Landings (round weight) per trip may not exceed:	
	200 pounds where 15,000 pounds or less of Halibut* is landed	200 pounds plus 1% of the amount of Halibut landed in excess of 15,000 pounds, to a maximum of 600 pounds of Bocaccio
Pacific cod	500 pounds	
Skate	6,000 pounds	
Sole and flounder	No limit	

\* Fresh, dressed, head-off weight



## **6.5. Fishing Restriction for exceeding an ITQ**

Licence eligibilities that exceed their uncaught ITQ for Halibut as of the vessel's last trip by more than 10%, or 400 pounds, whichever is greater, are defined as being in excess overage. Licence eligibilities in excess overage will be restricted from further fishing activity for the remainder of the fishing year, or until such time that sufficient ITQ is reallocated to the licence eligibility to cover any overages.

Licence eligibilities that exceed their total ITQ by area for non-directed species by more than 30%, or 100 pounds, whichever is greater, are defined as being in a state of excess overage. Licence eligibilities in excess overage will be restricted from further fishing activity for the remainder of the fishing year, or until such time that sufficient ITQ is reallocated to the licence eligibility to cover any overages.

Licenses that do not reconcile overages by February 20, 2015, will carry overages into the new season (see sections 6.7.3. and 6.7.4. of this harvest plan). If a licence eligibility remains in excess overage following initial allocations of ITQ, the licence eligibility will be restricted from fishing until temporary reallocations for the 2015/2016 season are processed in mid-March.

## **6.6. Reallocation of Directed and Non-Directed Species ITQ**

The following guidelines for the reallocation of directed and non-directed species ITQ are in effect for the 2014/2015 fishery.

- 6.6.1. Subject to annual ITQ caps and sector caps, upon application, licence eligibility holders will be permitted to make unlimited temporary reallocations of directed and non-directed species ITQs. A "Temporary Reallocation Request for Integrated Groundfish Fisheries" must be completed and submitted to the GMU and, if approved, a licence amendment will be issued to reflect new ITQ amounts. The most current licence amendment must be onboard when fishing.
- 6.6.2. For permanent Halibut ITQ reallocations, all vessel owners/licence eligibility holders on record must complete and sign a "Permanent Reallocation Request for Integrated Groundfish Fisheries." For temporary reallocations of ITQ only one owner or the licence eligibility holder is required to sign the "Temporary Reallocation Request for Integrated Groundfish Fisheries" form.
- 6.6.3. If the vessel owner is a company or First Nations group, only an authorized signing authority may sign the application. A copy of either a "Confirmation of Signing Authorities" or an "Amendment to Confirmation of Signing Authorities" listing the signing authorities must be on file with the GMU.
- 6.6.4. The 2013 Halibut licence eligibility must be issued prior to any ITQ being reallocated.
- 6.6.5. Requests for permanent reallocation of Halibut ITQ must be received by GMU by 16:00 hours local time on February 2, 2015 in order to be processed.

- 6.6.6. Requests for temporary reallocation of directed and non-directed species ITQ must be received by GMU by 16:00 hours local time on February 20, 2015 in order to be processed. Temporary reallocations of directed and non-directed species ITQ are only valid for the current fishing season.
- 6.6.7. Reallocations for the 2014/2015 season will not be processed until 8:00 hours local time March 15, 2014.
- 6.6.8. ITQ that has already been caught or deemed “fished” cannot be reallocated.
- 6.6.9. Permanent reallocations of ITQ will be expressed as a percentage of the TAC, and will be added to the receiving licence eligibility’s percentage of the TAC.
- 6.6.10. The minimum quantity of ITQ that may be reallocated is one pound.
- 6.6.11. Temporary reallocations are only valid for the current fishing season.

## **6.7. Rules for Carryover of Quota Overage and Underage**

### **6.7.1. Carryover of Directed Species ITQ Underage**

Licence eligibilities with Halibut catch less than ITQ, including reallocations made during the year, will be permitted to carryover uncaught ITQ up to 10% of their total Halibut ITQ at the end of the fishing season. This equivalent poundage will be added to the licence ITQ in 2015/2016. Any amount above the 10% will be forgone.

### **6.7.2. Carryover of Non-Directed Species ITQ Underage**

Licence eligibilities with non-directed species (except Sablefish and dogfish) catch less than ITQ, including reallocations made during the year, will be permitted to carryover uncaught ITQ up to 30% of their total non-directed species ITQ at the end of the fishing season. This equivalent poundage will be added to the licence ITQ in 2015/2016. Any amount above the 30% will be forgone.

Licence eligibilities with Sablefish catch less than ITQ, including reallocations made during the year, will be permitted to carryover uncaught ITQ up to 15% of their total Sablefish ITQ at the end of the fishing season. This equivalent poundage will be added to the licence ITQ in 2015/2016. Any amount above the 15% will be forgone.

Licence eligibilities with dogfish catch less than ITQ, including reallocations made during the year, will be permitted to carryover uncaught ITQ up to 10% of their total dogfish ITQ at the end of the fishing season. This equivalent poundage will be added to the licence ITQ in 2015/2016. Any amount above the 10% will be forgone.

### **6.7.3. Carryover of ITQ Overages**

Licence eligibilities with catch in excess of ITQ, including reallocations made during the year, will have the overage deducted from the licence eligibility's ITQ in 2015/2016. ITQ to cover these overages will count against the ITQ caps during the season in which the ITQ is allocated to the licence eligibility.

## **7. BAIT**

Commercial fishers wishing to use licensed catch as bait may do so, with the exception of rockfish. All such catch must be accurately recorded in the Integrated Groundfish Fishing Log. Rockfish may not be used as bait, and must be retained and landed.

Octopus caught incidentally may be retained and used for bait under authority of a Halibut licence eligibility, but cannot be landed and sold.

If a quota species is used as bait, the vessel will be assessed an average weight for that species as defined in appendix 2 of the groundfish IFMP.

## **8. COMBINED HALIBUT AND SABLEFISH FISHING**

Vessels conducting combined Halibut and Sablefish trips will be required to identify their intentions at the time of hail-out and will receive two hail-out numbers.

Those vessels conducting combination Halibut and Sablefish trips may assign directed and non-directed quota species catch to either their L licence or their K licence as long as they are within the sector caps for that fishery. This includes splitting catch for the same species between the two licence eligibility types if so desired. It is the responsibility of the vessel master at the time of offload to communicate this to the dockside observer. Trip limit allowances for quota species will be determined using the licence eligibility that the landed catch is assigned to. Trip limit allowances for all non-quota species will be determined using the Sablefish licence eligibility only.

If fishing on a combination trip the vessel may only fish in areas open to directed Sablefish fishing (see section 4.2 of Appendix 7 for the waters in which commercial Sablefish fishing is permitted to occur).

## **9. DUAL FISHING**

Dual fishing means fishing for commercial and First Nation Food, Social, and Ceremonial purposes on the same fishing trip. Dual fishing is authorized through licence conditions for commercial groundfish fisheries. Vessel masters considering dual fishing are responsible for reviewing their licence conditions to ensure they are aware of the dual fishing requirements.

Before hailing-out on a dual fishing trip, the vessel master must obtain a dual fishing designation certificate from a designating First Nation that has a communal licence authorizing the harvest of groundfish. The designation certificate must contain all of the information set out in the conditions of licence. If any of the information is missing the designation certificate will not be considered valid and the vessel master cannot dual fish.

A designation certificate template is available on the DFO website: <http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/index-eng.html>. Aboriginal organizations may issue their own designation certificate as long as the required information is included.

When hailing-out, the vessel master must notify the hail service provider that they will be dual fishing, provide the name of the First Nation that issued the designation certificate, and provide the unique designation certificate identification number. The vessel master must carry the designation certificate on board the vessel at all times during the fishing trip. The vessel master must record, by set and by species, the fish retained under the authority of the designation certificate. This information must be recorded in the comments section and the retained column of the Integrated Groundfish Fishing Log.

When hailing-in, the vessel master must provide an estimate, by species, of the weight of fish caught under the authority of the designation certificate.

Unless the designating First Nation requests to have the FSC fish landed and validated at a different location, all fish from the trip must be landed at the same place and validated by a designated groundfish dockside observer. At the time of offload, the vessel master must provide a valid designation certificate to the dockside observer. If one is not provided, all catch from the trip will be considered commercial catch until the completion of a review by the Groundfish Management Unit and discussion with the vessel master. Furthermore, if FSC fish are landed at a different location than the commercial catch, an FSC validation record containing the verified weight and the number of pieces by species must be completed by a fisheries representative of the designating First Nation organization. The vessel master must obtain a copy of the FSC validation record and provide it to the designated groundfish dockside monitor at the time of the commercial offload.

## **10. RECREATIONAL FISHING**

Fish harvesters are reminded that under Section 14 of the *British Columbia Sport Fishing Regulations, 1996*, it is unlawful to have Halibut on board taken by sport fishing if there are any other fish on board the vessel destined for commercial sale.

## **11. CLOSURES**

### **11.1. General**

### 11.1.1. Swiftsure

Those portions of Subareas 121-1 and 121-2 inside a line:

that begins at	48°34.00' N	125°06.00' W
then true east to	48°34.00' N	124°54.20' W
then to	48°29.62' N	124°43.40' W
then following the International Boundary between Canada and the United States of America to	48°29.30' N	124°58.00' W

then to the beginning point.

### 11.1.2. Haida Gwaii

Subareas 2-1, 2-31 to 2-37, 2-63 to 2-68; and that portion of Subarea 2-69 from Hunter Point to Fame Point shoreward of the coordinates laid out below. These areas are closed year round for all commercial groundfish fisheries. The intent of the closure is to reduce harvesting pressure on localized stocks of fish and to provide improved access for First Nations Food, Social, and Ceremonial purposes.

#### Subarea 2-69

The portion of Subarea 2-69 inside a line:

that begins at Fame Point	53°17.060' N	132°42.415' W
then to	53°17.060' N	132°43.800' W
then to	53°16.350' N	132°44.700' W
then abutting the boundary of 2-68	53°15.208' N	132°43.597' W
Then to Hunter Point	53°15.208' N	132°42.984' W

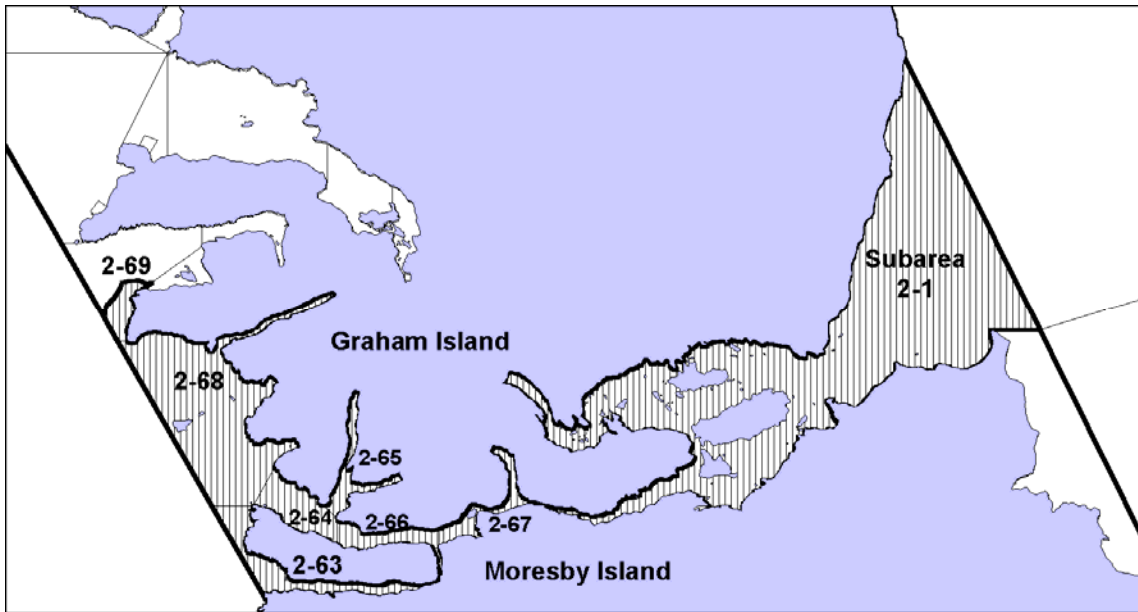


Figure 1. Haida Gwaii closed areas.

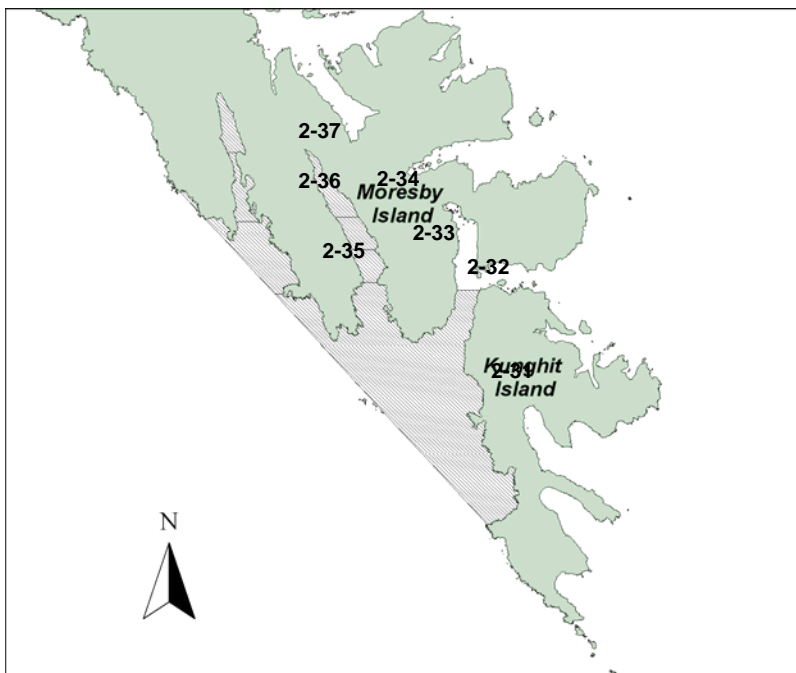


Figure 2. Haida Gwaii closed areas.

## 11.2. Rockfish Conservation Areas

Currently there are 164 Rockfish Conservation Areas (RCAs) in effect; these are outlined in the Protecting British Columbia's Rockfish booklet. These booklets can be downloaded from the DFO's internet site at: <http://www.pac.dfo-mpo.gc.ca/fm-gp/rec/species-especies/conservation-eng.htm>

## 11.3. Gwaii Haanas National Marine Conservation Area

Harvesters are reminded that the zones within the Gwaii Haanas National Marine Conservation Area Reserve as described below are closed to fishing. For background information see the groundfish IFMP. Closed areas are described below:

All tidal waters of Gwaii Haanas National Marine Conservation Area Reserve and Haida Heritage Site:

#### 11.3.1. Burnaby Narrows

Those waters of Subareas 2-13 and 2-16 inside a line:

commencing at	52°23.071' N	131°20.427' W
then east to	52°23.079' N	131°22.79' W
following the southern shoreline of Kat Island east to		
	52°23.104' N	131°22.193' W
then east to	52°23.303' N	131°21.277' W
following the western shoreline of Burnaby Island south to		
	52°20.982' N	131°20.427' W
then west to	52°20.733' N	131°21.063' W
then north following the eastern shoreline of Moresby Island back to the point of commencement.		

#### 11.3.2. Louscoone Estuary

Those waters of Subareas 2-33 and 2-34 north of a line:

drawn from	52°11.828' N	131°15.662' W
then true east to	52°12.269' N	131°14.579' W

#### 11.3.3. Flamingo Estuary

Those waters of Subarea 2-37 north of a line:

drawn from	52°14.523' N	131°22.24' W
then southeast to	52°14.245' N	131°21.481' W

#### 11.3.4. Gowgaia Estuary

Those waters of Subarea 2-41 east of a line:

drawn from	52°24.947' N	131°32.13' W
then southeast to	52°24.233' N	131°32.021' W

#### 11.3.5. Cape Saint James

Those waters of Subareas 2-19, 102-3, 130-3 and 142-1 inside a line:

commencing at	51°56.509' N	131°01.547' W
then southwest to	51°55.499' N	131°02.468' W
then southeast to	51°52.493' N	130°57.907' W
then south to	51°51.655' N	130°57.780' W
then southeast to	51°50.395' N	130°56.561' W
then northeast to	51°51.054' N	130°54.702' W
then north to	51°53.826' N	130°55.640' W
then northwest to	51°58.517' N	130°59.468' W
then west to	51°58.727' N	131°00.620' W

and then following the southern shore of Kungit Island to the point of commencement.

#### 11.3.6. SGang Gwaay

Those waters of Subareas 2-31 and 142-1 inside a 3 km radius from the centre

point on Anthony Island located at:	52°05.655' N	131°13.178' W
-------------------------------------	--------------	---------------



## Appendix 7: Sablefish Commercial Harvest Plan

### TABLE OF CONTENTS

1.	MANAGEMENT UPDATES & CHANGES FOR 2014/2015 .....	3
1.1.	In-Season Changes/Updates .....	3
1.2.	Species of Interest Program Continuation .....	3
1.3.	Discontinuation of Season Extension .....	3
1.4.	At-Sea Observers and Electronic Monitoring.....	3
1.5.	Licensing Service Changes – Effective in 2014 .....	3
1.6.	Big skate and Longnose skate allocation process.....	5
1.7.	Continuation of Pilot Bocaccio Rebuilding Measures.....	5
1.8.	Logbook Effort Reporting Reminder.....	5
1.9.	Area Coordinate Formats in the IFMP .....	5
1.10.	Use of Fish for Research Purposes .....	5
1.11.	SGaan Kinghlas-Bowie Seamount Marine Protected Area .....	6
2.	SPECIES.....	6
3.	GEAR .....	6
4.	QUOTAS AND OPEN TIMES.....	6
4.1.	Open Times .....	6
4.2.	Fishing Areas .....	7
4.3.	Total Allowable Catch .....	7
5.	LICENSING .....	8
5.1.	Licence Category .....	8
5.2.	Licence Fees .....	9
5.3.	Licence Application and Issuance .....	9
5.4.	Licence Amendment .....	9
5.5.	Licence Documents.....	9
5.6.	Vessel Replacement.....	10
5.7.	Temporary Vessel Replacement .....	10
6.	SECTOR RULES .....	10
6.1.	Annual ITQ Caps .....	11
6.2.	Trip Limits .....	11
6.3.	Fishing Restrictions for Exceeding ITQ Species Caps.....	12
6.4.	Reallocation of Directed and Non-Directed Species ITQ .....	12
6.5.	Rules for Carryover of Quota Overage and Underage .....	13
7.	BAIT.....	14
8.	COMBINED HALIBUT AND SABLEFISH FISHING.....	14
9.	DUAL FISHING .....	15
10.	RECREATIONAL FISHING.....	16
11.	CLOSURES.....	16
11.1.	General.....	16
11.2.	Rockfish Conservation Areas .....	17
11.3.	Gwaii Haanas National Marine Conservation Area .....	18
11.4.	Seasonal Closures .....	19
12.	FINANCIAL RESPONSIBILITIES .....	21
13.	OFFSHORE SEAMOUNT FISHERY .....	22

13.1. Open Times .....22  
13.2. Gear and Monitoring Requirements .....22  
13.3. Monthly Vessel Limits.....22  
13.4. SGaan Kinghlas - Bowie Seamount Marine Protected Area .....23

## **1. MANAGEMENT UPDATES & CHANGES FOR 2014/2015**

### **1.1. In-Season Changes/Updates**

In-season updates are available on the Fishery Notice website at: <http://www-ops2.pac.dfo-mpo.gc.ca/fns-sap/index-eng.cfm>.

In-season Sector Catch and Sector Cap summaries are updated daily and can be found at: <http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/index-eng.htm>.

### **1.2. Species of Interest Program Continuation**

The species of interest pilot program, which started in 2011, aims to provide harvesters feedback on how well the commercial groundfish integrated logbook is being completed for skates, seabirds, marine mammals, and sharks. During the pilot program, harvesters have made improvements in the accurate recording of skates; however a continued improvement on the recording of sharks, mammals, and seabirds is required. Beginning in the 2013/2014 season, Big Skate and Longnose Skate were incorporated into the testable portion of logbook audits (i.e., reporting of these two species of interest will impact audit trip scores and could result in a 100% review of fishing trips if misreported). Other species of interest (sharks, marine mammals, and seabirds) will continue to be tested in the Species of Interest section of the logbook audit, and misreporting of these species will be reported to individual harvesters and the Fisheries and Oceans Canada's (DFO) Electronic Monitoring Audit Review Board. Accurate reporting of all shark, mammal, and seabird encounters is required to assess the impact of fisheries on these species. Please ensure vessel masters and crew are aware of this program.

### **1.3. Discontinuation of Season Extension**

As in 2012 and 2013, fishing season extensions beyond the regular commercial season closing date of February 20, 2015, will not be available.

### **1.4. At-Sea Observers and Electronic Monitoring**

Beginning April 1, 2013, DFO determined it would no longer share the costs of the at-sea observer or electronic monitoring programs. The commercial groundfish fishing industry will now enter directly into contracts with at-sea observer service providers that are certified by the Canadian General Standards Board and designated by DFO. Interested companies will apply to the Canadian General Standards Board to become certified, and then, to the Department to become designated as a service provider for at-sea observer services beginning on April 1, 2013. Industry will also enter directly into contracts with electronic monitoring service providers that are approved by the Department as meeting the requirements for the provision of electronic monitoring services set out in the groundfish licence conditions and Appendix 2 of the groundfish IFMP.

### **1.5. Licensing Service Changes – Effective in 2014**

Fisheries and Oceans Canada introduced the web-based National Online Licensing System (NOLS) in the spring of 2013. This web-based system replaces in-person counter service at Pacific Fishery Licensing Units (PFLU). Fish harvesters/Licence Holders/vessel owners will now use the new online system to view, pay for and print their commercial fishing licences, licence conditions and/or receipts.

Fish harvesters must log into the National Online Licensing System to register and activate their accounts, using the DFO Passcode that has been mailed to them, in order to pay the fees and request issuance of a licence.

Licence renewal and payment of fees is mandatory on an annual basis prior to the expiry date of each fishery, in order to maintain the eligibility to be issued the licence in the future. Please note, the licence eligibility will cease if it is not renewed annually.

In early 2014, the need to submit the applicable forms will continue to be necessary where a designated vessel is required. Licensing forms will no longer collect information on “individuals designated to request amendments”. The Groundfish Management Unit will be collecting “individuals designated to request amendments” on their licence amendment forms. In addition, for Sablefish licence eligibilities, PFLUs will no longer collect information on whether fishing is “intended” or “not intended” as full licence conditions will be provided regardless of whether fishing is taking place or not. The applicable forms will be sent to licence eligibility holders by mail and the payment required to be processed through the National Online Licensing System.

Upon the Department receiving the required payment, documentation and information, the licence will be issued and notification will be sent via email to advise Licence Holders/vessel owners that a change has been made to the licence holder’s online account. The licence documents, licence conditions and receipt will be available to be printed at that time.

Later in 2014, a “request” feature to collect designated vessel will be available through the National Online Licensing System and the applicable forms once necessary will no longer be required. Sablefish licence eligibility holders will then need to submit designated vessel information online. Until such time, licence holders will continue to submit the necessary form to the Pacific Fishery Licence Unit while making the fee payments through the National Online Licensing System.

For transactions that are not yet available in the National Online Licensing System (e.g. Vessel replacements and nominations), licensing services will continue to be available either through telephone (1-877-535-7307), e-mail ([fishing-peche@dfo-mpo.gc.ca](mailto:fishing-peche@dfo-mpo.gc.ca)), or fax (604-666-5855). Please be sure to visit the Pacific Region Licensing website and subscribe to fishery notices for updates on the National Online Licensing System and licensing services: <http://www.pac.dfo-mpo.gc.ca/fm-gp/licence-permis/index-eng.html>.

Information on the new system may be found on the DFO internet site at: <http://www.dfo-mpo.gc.ca/fm-gp/sdc-cps/licence-permis-eng.htm>.

## **1.6. Big skate and Longnose skate allocation process**

Consistent with the DFO's direction of explicit and transparent allocations and to further promote stewardship of skate species, formal discussions between the DFO and commercial groundfish fishery sectors were initiated in 2013 to change the commercial skate fishery management and to formulate sector allocations for Big and Longnose skate. As result of DFO's initiation of these discussions all commercial skate fishers are hereby notified that catches of Big and Longnose Skate occurring in the 2013 fishing season and beyond will not be used when determining future groundfish sector catch allocations.

This action is taken to reduce the impact of speculative fishing that may occur as a result of discussions on sector allocations and management measures for both skate species. Advice on final sector allocations and new management measures will be formulated through extensive consultations with fishing interests.

## **1.7. Continuation of Pilot Bocaccio Rebuilding Measures**

Based on updated science information, DFO introduced Bocaccio catch reduction targets from 2012 catch levels of approximately 137 tonnes (inclusive of trawl, groundfish hook and line, salmon troll, and recreational sectors) to 75 tonnes over a three year period, in order to support stock rebuilding. Subsequent to the introduction of these measures, in November 2013, the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) reassessed Bocaccio and recommended it for listing under the Species At Risk Act (SARA) as "endangered".

## **1.8. Logbook Effort Reporting Reminder**

Effort data within the commercial groundfish integrated logbook is often incomplete or captured inaccurately. Please be advised that accurate recording of fishing effort in logbooks is a condition of licence and logbook data is an important component for assessment of stocks. Please ensure that "GEAR ID" and "Gear/Skate Details" fields are accurately completed by following instructions provided in the groundfish integrated logbook instructions.

## **1.9. Area Coordinate Formats in the IFMP**

Area coordinates throughout the IFMP (e.g., Groundfish Management Areas, Rockfish Conservation Areas, Marine Protected Areas, etc.) may be provided in several different formats. The format provided in the IFMP is typically consistent with the format provided in the regulation describing the specified area. You are reminded that it is the responsibility of the vessel master to ensure the correct coordinate format is used during navigation and in navigation software.

## **1.10. Use of Fish for Research Purposes**

For the 2014/2015 fishing season DFO has notionally set aside 72.63 tonnes (160,124 fresh, round pounds) of the Sablefish total allowable catch (TAC), after accounting for

First Nations Food, Social, and Ceremonial (FSC) fisheries requirements, for use in funding groundfish science projects supported by both DFO and sablefish stakeholders. Please refer to section 4.3, Total Allowable Catch, of this harvest plan for details.

### **1.11. SGaan Kinghlas-Bowie Seamount Marine Protected Area**

In 2014, new interim management measures for the Sablefish fishery within the SGaan Kinghlas-Bowie Seamount Marine Protected Area (SK-B MPA) have been introduced.

## **2. SPECIES**

The following species are permitted to be retained under Part 1 and Schedule II, Part 2 of a valid Sablefish licence eligibility with the appropriate amendment.

Sablefish (*Anoplopoma fimbria*)

Halibut (*Hippoglossus stenolepis*)

Rockfish (*Sebastes spp. and Sebastolobus spp.*)

Lingcod (*Ophiodon elongates*)

Spiny Dogfish (*Squalus suckleyi*)

Skate (*Rajidae*)

Sole and Flounder (*Pleuronectiformes other than Hippoglossus stenolepis*)

Pacific cod (*Gadus macrocephalus*)

## **3. GEAR**

Hook and line, and trap gear.

By regulation, no person shall fish for Sablefish with a trap, unless the trap has a side wall section that has been laced, sewn or otherwise secured by a single length of untreated natural fibre not larger than two millimetres 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 centimetres 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 centimetres 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.

## **4. QUOTAS AND OPEN TIMES**

### **4.1. Open Times**

The 2014/2015 Sablefish fishery will commence 00:01 hours, February 21, 2014 and close at 23:59 hours, February 20, 2015. Following the closure of the fishery, all fish caught under the authority of a Sablefish licence eligibility must be landed and validated by a DFO-designated groundfish dockside observer no later than 23:59 hours, February 27, 2015.

The directed Halibut fishery will close on November 7, 2014. Accordingly, all Halibut must be landed and validated by a DFO-designated groundfish dockside observer no later than 12:00 hours, November 14, 2014.

The retention of Lingcod by hook and line gear will be permitted from April 1, 2014 to 23:59 hours November 14, 2014. Accordingly, all Lingcod must be landed and validated by a DFO-designated groundfish dockside observer no later than 23:59 hours local time, November 21, 2014.

## **4.2. Fishing Areas**

Subject to closures described in section 11 of this harvest plan and variation orders, the waters in which commercial Sablefish fishing is permitted to be carried out are:

Areas: 1, 2, 101, 108 to 111, 121, 123 to 127, 130, 142, Sub-area 102-3 and that portion of Subarea 102-2 that lies southerly of a line from 52°10.00' north latitude and 130°57.395' west longitude to 52°27.020' north latitude and 130°16.621' west longitude (portions of Groundfish Management Areas 3C, 3D, 5A, 5B, 5C, 5D, and 5E).

When hailed out on a combination Halibut and Sablefish trip, a vessel can only fish in areas open to directed Sablefish fishing (see section 8 of this harvest plan).

While fishing under authority of a Halibut, Rockfish or a Schedule II species licence eligibility only, non-directed, legal-sized Sablefish caught may be retained from any area or subarea open to fishing under the authority of a Halibut, Rockfish or a Schedule II species commercial licence eligibility, except Groundfish Management Area 4B. Retention of Sablefish is also subject to closures described in section 10 of this harvest plan and variation orders.

## **4.3. Total Allowable Catch**

The 2014/2015 coastwide Sablefish total allowable catch (TAC) is 2,129 tonnes (all Sablefish weights are fresh, round weight). The Sablefish TAC is determined annually using information from an annual fishery-independent Sablefish survey, and the commercial Sablefish fishery. These data are used to estimate Sablefish biomass which is incorporated into a harvest control rule that is compliant with DFO's *Fishery Decision Making Framework incorporating the Precautionary Approach*. In 2013 a revised management procedure that includes a new harvest control rule with a minimum catch limit was evaluated. The evaluation of the new management procedure found that it provides conservation performance that is comparable to the existing procedure. The new

procedure also provides slightly higher and more stable annual catches than the existing procedure.

From the TAC, access is allocated for First Nation Food, Social, and Ceremonial (FSC) purposes, aquaculture broodstock collection, and research and management. Section 10 of the Fisheries Act permits the Minister of Fisheries and Oceans to allocate fish for the purpose of financing scientific and fisheries management activities. In 2014/2015 up to 70 tonnes of Sablefish has been notionally allocated to support the Sablefish trap survey and science program through a joint project agreement between Wild Canadian Sablefish Ltd. and the Department (see section 12 of this harvest plan). In 2014/2015 2.63 tonnes of Sablefish has been allocated to support the groundfish trawl survey (see appendix 8 of the groundfish IFMP).

After accounting for FSC and research, access is allocated to commercial sectors. Access totalling 4 tonnes is provided to the aquaculture industry for the collection of broodstock. In a manner similar to directed commercial groundfish fisheries (appendix 2 of the groundfish IFMP), aquaculture access accounts for the mortality associated with the retention and release of Sablefish caught during the collection of broodstock. The balance of the TAC is allocated between the directed Sablefish fishery (91.25%) and the groundfish Trawl fishery (8.75%).

In 2014 the Sablefish TAC has been allocated as:

Food, Social, and Ceremonial	45.36 tonnes	100,000 pounds
Research; tagging	6.00 tonnes	13,228 pounds
Research; catch sampling program	5.00 tonnes	11,023 pounds
Use of Fish allocation; trap survey	70.00 tonnes	154,323 pounds
Use of Fish allocation; trawl survey	2.63 tonnes	5,800 pounds
Category K licence eligibility TAC	1,821.36 tonnes	4,015,366 pounds
Category T licence eligibility TAC	174.65 tonnes	385,035 pounds
Aquaculture broodstock collection	4.00 tonnes	8,818 pounds
Total Allowable Catch *	2,129.00 tonnes	4,693,593 pounds

\* Excludes carryover of overages and underages from the previous season (see section 6.5 of this harvest plan).

## 5. LICENSING

### 5.1. Licence Category

A commercial Sablefish category K or a communal commercial Sablefish category FK licence eligibility is required to participate in the directed commercial Sablefish fishery.

Category K Sablefish licence eligibilities are limited entry and vessel-based. Category FK eligibilities are limited entry and party-based; an Aboriginal group is the licence eligibility holder and the eligibility must be designated to a commercially registered fishing vessel that meets established length restrictions.



Vessels authorized to fish under the authority of a Sablefish licence eligibility are also permitted to catch and retain other groundfish species by hook and line gear, and trap gear as outlined in conditions of licence. These vessels are also permitted to catch and retain species described in Schedule II, Part 2 of the *Pacific Fishery Regulations, 1993*, catch and retain other groundfish species, transport non-groundfish species caught by other vessels and be designated to fish under the authority of a category Z licence.

## **5.2. Licence Fees**

The commercial Sablefish licence fee is based on the following formula: \$241 multiplied by the number of tonnes of Sablefish initially allocated to the licence eligibility, less 40 percent of that product, up to a maximum reduction of \$1000. There is no annual licence fee for communal commercial category FK licenses.

## **5.3. Licence Application and Issuance**

Category K licence eligibilities must be applied for and issued annually regardless of whether fishing will take place or not. This application must be submitted by February 20, 2015.

The licence eligibility holder or an authorized representative must sign the applicable form. If the licence eligibility holder is a company or aboriginal group, the PFLU must have on record a copy of BC Company Summary and/or a Confirmation of Signing Authorities form listing the signing authorities.

Prior to annual application, vessel owner(s)/licence eligibility holders are required to:

- a) Meet any Ministerial conditions placed on the licence eligibility.
- b) Ensure any conditions of the previous year's licence.

## **5.4. Licence Amendment**

The Sablefish licence eligibility must be issued prior to the processing of a request for licence amendment or reallocation of Individual Transferable Quota (ITQ). The vessel owner/master must have on board a valid Sablefish licence amendment prior to fishing.

This amendment outlines the total amount of fish by species that the vessel can land for the fishing season. Without this amendment the vessel is not permitted to catch, retain or land any fish.

A "Request for Licence Amendment" must be completed by the vessel owner/licence eligibility holder or the designated agent and faxed to the Groundfish Management Unit at (604) 666-8525. Request forms and other applicable forms are available online at: <http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/form-eng.htm>.

## **5.5. Licence Documents**

Sablefish licence documents are valid from the date of issue to February 20, 2015.

Replacements for lost or destroyed licence documents may be obtained by reprinting the licence documents through the NOLS.

## **5.6. Vessel Replacement**

The owner(s) of a category K licensed Sablefish vessel may make an application to replace the commercial fishing vessel. Both the replacement vessel and the vessel being replaced must have a survey on file with the PFLU or submitted with the vessel replacement application. Vessels must be surveyed according to the Department guidelines.

Communal commercial licenses are not eligible for vessel replacement as the licence eligibility is party-based and is not held by the vessel but designated to a vessel annually.

A single category K Sablefish licence eligibility may be placed on a vessel that does not hold another vessel based licence eligibility as long as the replacing vessel does not exceed the overall length of the existing vessel.

A Sablefish licence eligibility may be separated from any combination of married licence eligibilities as long as it is placed on another commercially licensed fishing vessel of any length, that holds a salmon, geoduck, halibut, crab, shrimp trawl, groundfish trawl or prawn and shrimp by trap licence eligibility. Sablefish licence eligibilities may not be stacked.

Where a Sablefish licence eligibility is permanently placed on a vessel which holds Schedule II species (category C) licence eligibility, then the Schedule II licence privilege must be permanently retired.

Where the Sablefish licence eligibility is temporarily placed on a vessel which holds Schedule II species licence eligibility, then the Schedule II licence must be returned to a PFLU. The Schedule II licence will be held for the duration of the time the Sablefish licence is temporarily placed.

Vessel owners wishing to make permanent or temporary vessel replacements for commercial Sablefish licence eligibilities must apply to a PFLU.

## **5.7. Temporary Vessel Replacement**

The temporary placement of Sablefish licence eligibilities is only allowed when the vessel to be replaced becomes a total loss. Temporary replacement vessels may not have harvested Sablefish in the current fishing year and may not exceed the Maximum Vessel Length (MVL) of the Sablefish licence eligibility. If a Sablefish licence eligibility is temporarily split from other vessel licence eligibilities, the remaining eligibilities may not be placed on a third vessel.

## **6. SECTOR RULES**

## 6.1. Annual ITQ Caps

All Sablefish licence eligibilities are subject to annual ITQ caps for directed and non-directed species. Temporary reallocations of ITQ, up to the ITQ caps listed below, will be permitted. No vessel may hold quota holdings in excess of the annual ITQ caps.

### 6.1.1. Licence Species Temporary Quota Caps

Species	Areas	Licence Species Cap (fresh, round pounds)
Halibut	Coastwide	65,466
Lingcod	Coastwide	33,772
Canary rockfish	Coastwide	14,542
Silvergray rockfish	Coastwide	9,836
Yelloweye rockfish	Coastwide	9,000
Quillback, Copper, China & Tiger rockfish (total)	Coastwide	1,945
Redbanded rockfish	Coastwide	50,000
Rougheye rockfish	Coastwide	180,000
Shorthead rockfish	Coastwide	64,000
Shortspine thornyhead	Coastwide	40,000

## 6.2. Trip Limits

Trip limits for non-directed species of groundfish caught while fishing Sablefish:

Species	Trip Limit (fresh, round pounds)	
Halibut	Landings* may not exceed 15% of Sablefish landed per trip	
Lingcod	Landings may not exceed 75% of Sablefish landed per trip	
Canary rockfish	Landings may not exceed 30% of Sablefish landed per trip	
Silvergray rockfish	Landings may not exceed 30% of Sablefish landed per trip	
Yelloweye rockfish	Landings may not exceed 30% of Sablefish landed per trip	
Quillback, Copper, China and Tiger rockfish (combined)	Landings may not exceed 30% of Sablefish landed per trip	
“Other Rockfish,” as set out in Appendix 1 in the conditions of licence, including Bocaccio.	5,000 pounds	
Bocaccio**	Landings per trip may not exceed:	
	200 pounds where 15,000 pounds or	200 pounds plus 1% of the amount of

Species	Trip Limit (fresh, round pounds)	
	less of Sablefish is landed	Sablefish landed in excess of 15,000 pounds, to a maximum of 600 pounds of Bocaccio
Pacific cod	500 pounds	
Skate	6,000 pounds	
Sole and Flounder	No limit	

- Fresh, dressed, head-off weight

\*\* When combined Halibut and Sablefish fishing, the permitted amount of Bocaccio is based on the combined landed weight of Halibut and Sablefish.

### 6.3. Fishing Restrictions for Exceeding ITQ Species Caps

Licence eligibilities that exceed their total Sablefish ITQ by more than 10%, or 1,000 pounds, whichever is greater, are defined as being in excess overage. Licence eligibilities in excess overage will be restricted from further fishing activity for the remainder of the fishing year, or until such time that sufficient ITQ is reallocated to the licence eligibility to cover any overages.

Licence eligibilities that exceed their total ITQ for non-directed species by more than 30%, or 100 pounds, whichever is greater, are defined as being in excess overage. Licence eligibilities in excess overage will be restricted from further fishing activity for the remainder of the fishing year, or until such time that sufficient ITQ is reallocated to the licence eligibility to cover any overages.

Licence eligibilities that do not reconcile excess overages by February 20, 2015, will carry excess overages into the new season (see sections 6.5.3.). If a licence eligibility remains in excess overage following initial allocations of ITQ, the licence eligibility will be restricted from fishing until such time that sufficient ITQ is reallocated to the licence eligibility to cover any overages. Note that temporary reallocations for the 2015/2016 season are first processed in mid-March (see section 6.4.7 of this harvest plan).

### 6.4. Reallocation of Directed and Non-Directed Species ITQ

The following guidelines for the reallocation of directed and non-directed species ITQ are in effect for the 2014/2015 fishery.

6.4.1. Subject to annual ITQ caps and sector caps, upon application, licence eligibility holders will be permitted to make unlimited temporary reallocations of directed and non-directed species ITQs. A “Temporary Reallocation Request for Integrated Groundfish Fisheries” must be completed and submitted to the GMU and, if approved, a licence amendment will be issued to reflect new ITQ amounts. The most current licence amendment must be onboard when fishing.

- 6.4.2. For permanent Sablefish ITQ reallocations, all vessel owners/licence eligibility holders on record must complete and sign a “Permanent Reallocation Request for Integrated Groundfish Fisheries.” For permanent reallocations, all signatures must be notarized. For temporary reallocations of ITQ only one owner or the licence eligibility holder is required to sign the “Temporary Reallocation Request for Integrated Groundfish Fisheries” form.
- 6.4.3. If the vessel owner is a company or First Nations group, only an authorized signing authority may sign the application. A copy of either a “Confirmation of Signing Authorities” or an “Amendment to Confirmation of Signing Authorities” listing the signing authorities must be on file with the GMU.
- 6.4.4. The 2014/2015 Sablefish licence eligibility must be issued prior to any ITQ being reallocated.
- 6.4.5. Requests for permanent reallocation of Sablefish ITQ must be received by GMU by 16:00 hours local time on February 2, 2015 in order to be processed.
- 6.4.6. Requests for temporary reallocation of directed and non-directed species ITQ must be received by GMU by 16:00 hours local time on February 20, 2015 in order to be processed. Temporary reallocations of directed and non-directed species ITQ are only valid for the current fishing season.
- 6.4.7. Reallocations for the 2014/2015 season will not be processed until 8:00 hours local time March 15, 2014.
- 6.4.8. ITQ that has already been caught or deemed “fished” cannot be reallocated.
- 6.4.9. Permanent reallocations of ITQ will be expressed as a percentage of the TAC, and will be added to the receiving licence eligibility’s percentage of the TAC.
- 6.4.10. The minimum quantity of ITQ that may be reallocated is one pound.
- 6.4.11. Temporary reallocations are only valid for the current fishing season.

## **6.5. Rules for Carryover of Quota Overage and Underage**

### **6.5.1. Carryover of Directed Species ITQ Underage**

Licence eligibilities with Sablefish catch less than ITQ, including reallocations made during the year, will be permitted to carryover uncaught ITQ up to 30% of their total Sablefish ITQ at the end of the fishing season. This equivalent poundage will be added to the licence ITQ in 2015/2016. Any amount above the 30% will be forgone.

The 30% carryover provision will be reviewed annually to ensure sustainability of the stock.

#### 6.5.2. Carryover of Non-directed ITQ Underage

Licence eligibilities with non-directed species (except dogfish) catch less than ITQ, including reallocations made during the year, will be permitted to carryover uncaught ITQ up to 30% of their total non-directed species ITQ at the end of the fishing season. This equivalent poundage will be added to the licence ITQ in 2015/2016. Any amount above the 30% will be forgone.

Licence eligibilities with dogfish catch less than ITQ, including reallocations made during the year, will be permitted to carryover uncaught ITQ up to 10% of their total dogfish ITQ at the end of the fishing season. This equivalent poundage will be added to the licence ITQ in 2015/2016. Any amount above the 10% will be forgone.

#### 6.5.3. Carryover of ITQ Overages

Licence eligibilities with catch in excess of ITQ, including reallocations made during the year, will have the overage deducted from the licence eligibility's ITQ in 2015/2016. ITQ to cover these overages will count against the ITQ caps during the season in which the ITQ is allocated to the licence eligibility.

### 7. **BAIT**

Commercial fishers wishing to use licensed catch as bait may do so, with the exception of rockfish. All such catch must be accurately recorded in the Integrated Groundfish Fishing Log. Rockfish may not be used as bait, and must be retained and landed.

Octopus caught incidentally may be retained and used for bait under authority of a Sablefish licence eligibility, but cannot be landed and sold.

If a quota species is used as bait, the vessel will be assessed an average weight for that species as defined in appendix 2 of the groundfish IFMP.

### 8. **COMBINED HALIBUT AND SABLEFISH FISHING**

Vessels conducting combined Halibut and Sablefish trips will be required to identify their intentions at the time of hail-out and will receive two hail-out numbers.

Those vessels conducting combination Halibut and Sablefish trips may assign directed and non-directed quota species catch to either their L tab or their K tab as long as they are within the sector caps for that fishery. This includes splitting catch for the same species between the two licence eligibility types if so desired. It is the responsibility of the vessel master at the time of offload to communicate this to the dockside observer. Trip limit allowances for quota species will be determined using the licence eligibility

that the landed catch is assigned to. Trip limit allowances for all non-quota species will be determined using the Sablefish licence eligibility only.

If fishing on a combination trip, the vessel may only fish in areas open to directed Sablefish fishing (see section 4.2 of this harvest plan for the waters in which commercial Sablefish fishing is permitted to occur).

## **9. DUAL FISHING**

Dual fishing means fishing for commercial and First Nation Food, Social, and Ceremonial purposes on the same fishing trip. Dual fishing is authorized through licence conditions for commercial groundfish fisheries. Vessel masters considering dual fishing are responsible for reviewing their licence conditions to ensure they are aware of the dual fishing requirements.

Before hailing-out on a dual fishing trip, the vessel master must obtain a dual fishing designation certificate from a designating First Nation that has a communal licence authorizing the harvest of groundfish. The designation certificate must contain all of the information set out in the conditions of licence. If any of the information is missing the designation certificate will not be considered valid and the vessel master cannot dual fish.

A designation certificate template is available on the DFO website: <http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/index-eng.html>. Aboriginal organizations may issue their own designation certificate as long as the required information is included.

When hailing-out, the vessel master must notify the hail service provider that they will be dual fishing, provide the name of the First Nation that issued the designation certificate, and provide the unique designation certificate identification number. The vessel master must carry the designation certificate on board the vessel at all times during the fishing trip. The vessel master must record, by set and by species, the fish retained under the authority of the designation certificate. This information must be recorded in the comments section and the retained column of the Integrated Groundfish Fishing Log.

When hailing-in, the vessel master must provide an estimate, by species, of the weight of fish caught under the authority of the designation certificate.

Unless the designating First Nation requests to have the FSC fish landed and validated at a different location, all fish from the trip must be landed at the same place and validated by a designated groundfish dockside observer. At the time of offload, the vessel master must provide a valid designation certificate to the dockside observer. If one is not provided, all catch from the trip will be considered commercial catch until the completion of a review by the Groundfish Management Unit and discussion with the vessel master. Furthermore, if FSC fish are landed at a different location than the commercial catch, an FSC validation record containing the verified weight and the number of pieces by species must be completed by a fisheries representative of the designating First Nation

organization. The vessel master must obtain a copy of the FSC validation record and provide it to the designated groundfish dockside monitor at the time of the commercial offload.

## 10. RECREATIONAL FISHING

Fishers are reminded that under Section 14 of *the British Columbia Sport Fishing Regulations, 1996*, it is unlawful to have halibut on board taken by sport fishing if there are any other fish on board the vessel destined for commercial sale.

## 11. CLOSURES

Area coordinates throughout the IFMP are provided in several different formats. The format provided in the IFMP is typically consistent with the format provided in the regulation describing the specified area. You are reminded that it is the responsibility of the vessel master to ensure the correct coordinate format is used during navigation and in navigation software.

### 11.1. General

#### 11.1.1. Swiftsure

Those portions of Subareas 121-1 and 121-2 inside a line:

that begins at	48°34.00' N	125°06.00' W
then true east to	48°34.00' N	124°54.20' W
then to	48°29.62' N	124°43.40' W
then following the International Boundary between Canada and the United States of America to	48°29.30' N	124°58.00' W

then to the beginning point.

#### 11.1.2. Haida Gwaii

Subareas 2-1, 2-31 to 2-37, 2-63 to 2-68; and that portion of Subarea 2-69 from Hunter Point to Fame Point shoreward of the coordinates laid out below. These areas are closed year round for all commercial groundfish fisheries. The intent of the closure is to reduce harvesting pressure on localized stocks of fish and to provide improved access for First Nations Food, Social, and Ceremonial purposes (Figure 2, Figure 3).

#### Subarea 2-69

The portion of Subarea 2-69 inside a line:



that begins at Fame Point	53°17.060' N	132°42.415' W
then to	53°17.060' N	132°43.800' W
then to	53°16.350' N	132°44.700' W
then abutting the boundary of 2-68	53°15.208' N	132°43.597' W
Then to Hunter Point	53°15.208' N	132°42.984' W

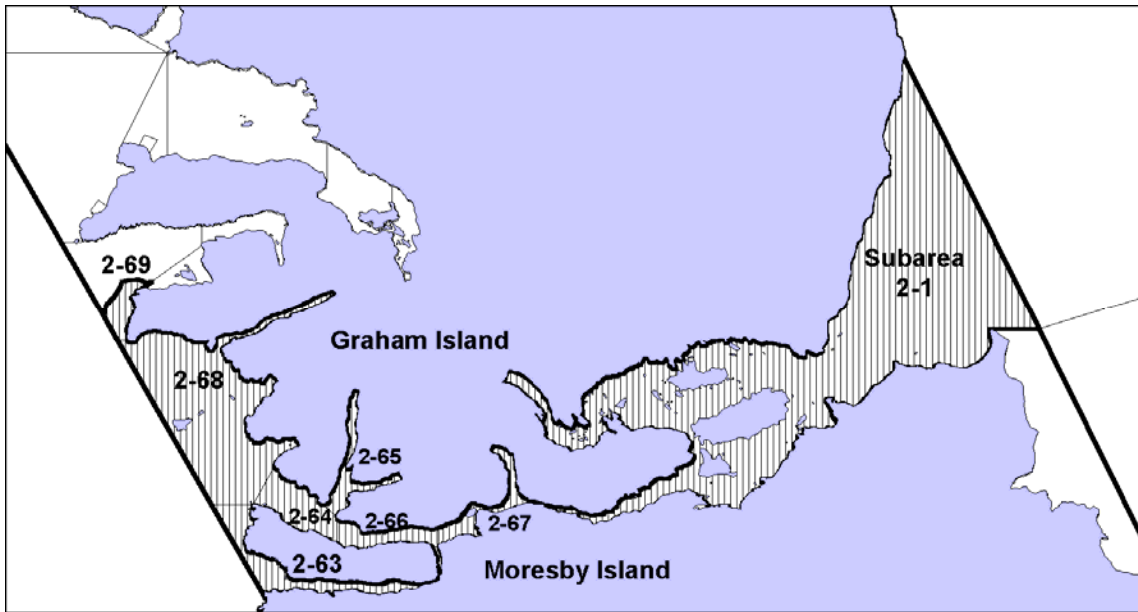


Figure 1. Haida Gwaii closed areas.

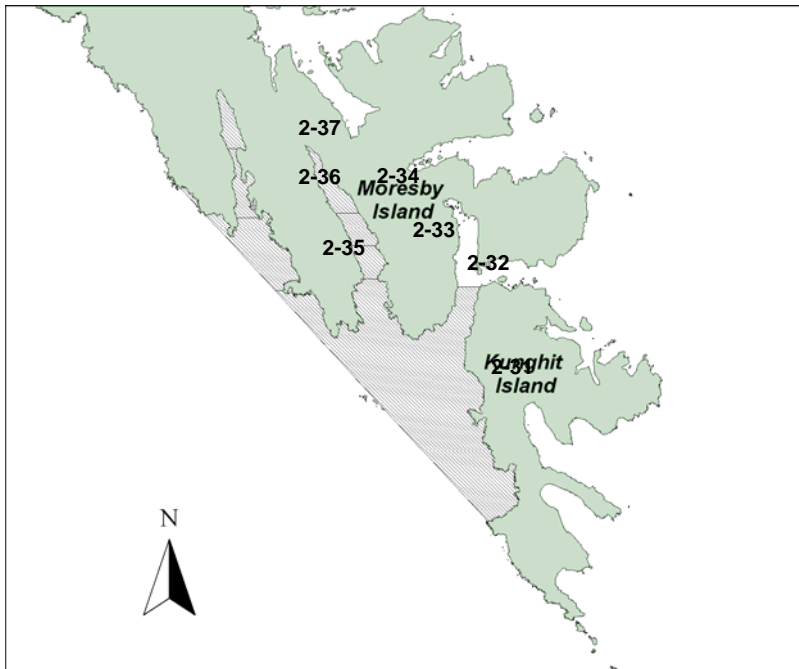


Figure 2. Haida Gwaii closed areas.

## 11.2. Rockfish Conservation Areas

Currently there are 164 Rockfish Conservation Areas (RCAs) in effect; these are outlined in the Protecting British Columbia's Rockfish booklet. These booklets can be downloaded from the DFO's internet site at: <http://www.pac.dfo-mpo.gc.ca/fm-gp/rec/species-especies/conservation-eng.htm>

### 11.3. Gwaii Haanas National Marine Conservation Area

Harvesters are reminded that the zones within the Gwaii Haanas National Marine Conservation Area Reserve as described below are closed to fishing. For background information see the groundfish IFMP. Closed areas are described below:

All tidal waters of Gwaii Haanas National Marine Conservation Area Reserve and Haida Heritage Site:

#### 11.3.1. Burnaby Narrows

Those waters of Subareas 2-13 and 2-16 inside a line:

commencing at 52°23.071' N 131°20.427' W

then east to 52°23.079' N 131°22.79' W

following the southern shoreline of Kat Island east to

52°23.104' N 131°22.193' W

then east to 52°23.303' N 131°21.277' W

following the western shoreline of

Burnaby Island south to 52°20.982' N 131°20.427' W

then west to 52°20.733' N 131°21.063' W

then north following the eastern shoreline of Moresby Island back to the point of commencement.

#### 11.3.2. Louscoone Estuary

Those waters of Subareas 2-33 and 2-34 north of a line:

drawn from 52°11.828' N 131°15.662' W

then true east to 52°12.269' N 131°14.579' W

#### 11.3.3. Flamingo Estuary

Those waters of Subarea 2-37 north of a line:

drawn from	52°14.523' N	131°22.24' W
then southeast to	52°14.245' N	131°21.481' W

#### 11.3.4. Gowgaia Estuary

Those waters of Subarea 2-41 east of a line:

drawn from	52°24.947' N	131°32.13' W
then southeast to	52°24.233' N	131°32.021' W

#### 11.3.5. Cape Saint James

Those waters of Subareas 2-19, 102-3, 130-3 and 142-1 inside a line:

commencing at	51°56.509' N	131°01.547' W
then southwest to	51°55.499' N	131°02.468' W
then southeast to	51°52.493' N	130°57.907' W
then south to	51°51.655' N	130°57.780' W
then southeast to	51°50.395' N	130°56.561' W
then northeast to	51°51.054' N	130°54.702' W
then north to	51°53.826' N	130°55.640' W
then northwest to	51°58.517' N	130°59.468' W
then west to	51°58.727' N	131°00.620' W

and then following the southern shore of Kungit Island to the point of commencement.

#### 11.3.6. SGang Gwaay

Those waters of Subareas 2-31 and 142-1 inside a 3 km radius from the centre

point on Anthony Island located at:

	52°05.655' N	131°13.178' W
--	--------------	---------------

### 11.4. Seasonal Closures

A 72 hour closures goes into effect prior to the Pacific Halibut opening each year for all commercial hook and line fishing vessels (Figure 3). The intent of the closure is to ensure a fair and orderly opening for the Pacific Halibut fishery.

Hook and line Sablefish vessels wishing to fish in the areas listed below during the 72 hour closure, must carry a certified at-sea observer and request an amendment to their licence conditions from the Sablefish Coordinator. These vessels must also land all of their Sablefish catch prior to hailing out for a Halibut trip.

Those portions of Area 101 that are:

- east of the meridian passing through 134°00.0' west longitude;
- west of the meridian passing through 132°40.0' west longitude; and
- south of the parallel passing through 54°30.0' north latitude.

Those portions of Subareas 102-2, 102-3, 108-2, 130-2, 130-3 and 142-1 that are inside a line that:

- |                    |            |              |
|--------------------|------------|--------------|
| that begins at     | 52°11.0' N | 131°22.16' W |
| then westerly to   | 52°10.0' N | 131°30.0' W  |
| then true south to | 51°30.0' N | 131°30.0' W  |
| then true east to  | 51°30.0' N | 130°00.0' W  |
| then true north to | 52°10.0' N | 130°00.0' W  |
| then westerly to   | 52°13.0' N | 131°00.3' W  |

Those portions of Area 111 and Subarea 130-1 that lie inside a line that:

- |                    |            |             |
|--------------------|------------|-------------|
| begins at          | 51°15.0' N | 130°00.0' W |
| then true east to  | 51°15.0' N | 129°30.0' W |
| then true south to | 51°00.0' N | 129°30.0' W |
| then true west to  | 51°00.0' N | 130°00.0' W |
- then true north to the beginning point.

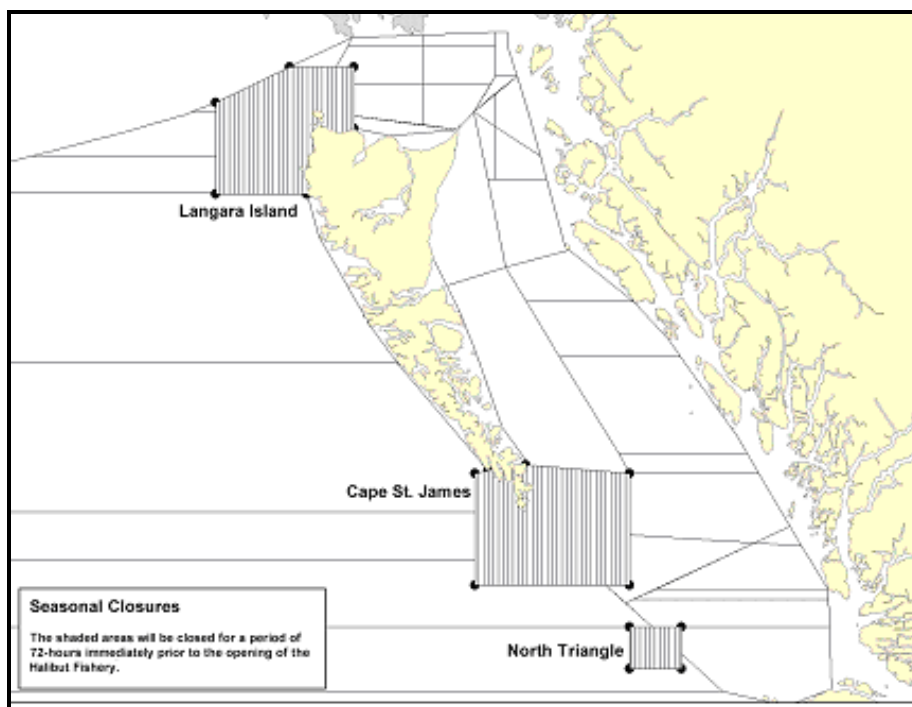


Figure 3. Map of 72-hour “Halibut opening” closure areas

## 12. FINANCIAL RESPONSIBILITIES

Through the Joint Project Agreement (JPA), Fisheries and Oceans Canada and Wild Canadian Sablefish, Ltd. (WCS) have established roles and responsibilities and planned expenditures for both parties. The JPA runs from February 21, 2014 to February 20, 2015. Each year a work plan is developed jointly to develop guidelines for spending and programs. Currently, the WCS, Ltd. and individual harvesters contribute – either through the JPA or directly – approximately \$1.5 million for these activities:

- a) Dockside Monitoring Program
- b) Sablefish Advisory Committee (consultative process)
- c) At-Sea Monitoring Program
- d) Biological Sampling Program
- e) Biological Data Collection Program
- f) Stock Assessment Program
- g) Seamount Program
- h) Fishing Log Program
- i) Cost Recovery Funding
- j) Fishery Management Program

In-kind costs borne by the Department include such items as administration, salaries for fishery managers, scientists, biologists, support staff, and enforcement staff, and research, patrol vessels and aircraft.

### 13. OFFSHORE SEAMOUNT FISHERY

#### 13.1. Open Times

The seamount fishery is divided between ‘North’ and ‘South’ management areas. One vessel per month from April 1 to September 30 is permitted to participate in the ‘South’ management area. One vessel per month from May 1 to August 31 is permitted to participate in the ‘North’ management area.

Seamount application forms will be mailed to licence eligibility holders early in the 2014 calendar year. A lottery draw of applicant licence eligibility holders will determine those vessels permitted to participate in the seamount fishery. If a vessel is selected for the North or South seamount fishery but is unable to participate, the eligibility to participate in the seamount fishery cannot be transferred to another sablefish vessel owner/licence eligibility holder. Rather, the opportunity to participate in the fishery must be declined and will be passed to the next vessel selected from the lottery process.

Successful applicants that wish to fish beyond the 200 nautical mile Exclusive Economic Zone must apply for a section 68 licence to fish in international waters. Please contact the Pacific Fishery Licence Unit (1-877-535-7307, [fishing-peche@dfo-mpo.gc.ca](mailto:fishing-peche@dfo-mpo.gc.ca)) for details.

#### 13.2. Gear and Monitoring Requirements

Trap gear is permitted in both ‘North’ and ‘South’ management areas. Longline gear is prohibited in the ‘North’ management area. Vessels not equipped with trap gear at the time of lottery entry will not be eligible to participate in the Northern seamount fishery.

Vessels participating in the seamount fisheries must adhere to all monitoring requirements as outlined in the groundfish IFMP, Appendix 2: Groundfish Hook and Line/Trap Monitoring Requirements (At-Sea and Dockside), Mortality Rates, and Size Limits and the conditions of licence. During the months of May and June, vessels in the ‘North’ fishery must carry an at-sea observer in place of the electronic monitoring. The at-sea observer is required to collect habitat and biological data. If one or both of the May/June trips does not occur, or an at-sea observer is unavailable, then observer coverage will occur in July and/or August. A minimum of two of the four months that could be fished for the ‘North’ fishery will have at-sea observer coverage.

#### 13.3. Monthly Vessel Limits

For vessels participating in the Sablefish seamount fishery there will be monthly vessel limits. These limits apply to each of the North and South seamount fisheries.

Species	Monthly Vessel Limit (fresh, round pounds)
Sablefish	75,000
Rougheye rockfish	5,000
Other rockfish, sole and flounder	1,000

#### 13.4. **SGaan Kinghlas - Bowie Seamount Marine Protected Area**

Commercial fishing activities within the MPA are managed through the Integrated Fisheries Management process. Three zones are identified in the IFMP, some of which are fisheries closures which are used to manage the Sablefish fishery. The Sablefish seamount fishery within the MPA is restricted to Zone 2 of the MPA (Figure 4, Figure 5), with the use of trap gear only. For more information on the SGaan Kinghlas-Bowie Seamount Marine Protected Area (SK-B MPA), refer to section 8.2 of the Groundfish IFMP.

Annual harvest plans will be developed in consultation with interested parties and specific actions (e.g., openings and closures) for the SK-B Marine Protected Area will be taken under the *Fisheries Act* and its regulations. Efforts will be made to align the IFMP and annual harvest plans with the SK-B MPA Management Plan once it is completed. In 2014, new interim management measures for the Sablefish fishery within the SGaan Kinghlas-Bowie Seamount Marine Protected Area (SK-B MPA) have been introduced.

The interim management measures for the “North” management area include:

- Reduced harvest opportunity with the closure of the April and September openings.
- At-sea observer coverage, biosample collection procedures, and deepwater cameras and accelerometers deployment, normally required during April and September openings, are now required during May and June (or in July and/or August as necessary). Please refer to section 12.2 for more details.
- Initial work to identify an index of abundance for Sablefish at the SK-B MPA.
- Exploratory habitat work will continue with the development and implementation of a coral and sponge encounter protocol to document corals and sponges in the Zone 2 of the MPA.

During 2014 interim fishery management objectives for habitat conservation and Sablefish biomass abundance will be developed to inform the harvest decisions. At the same time a process for evaluating management strategies against interim management objectives will be initiated to inform future management decisions.

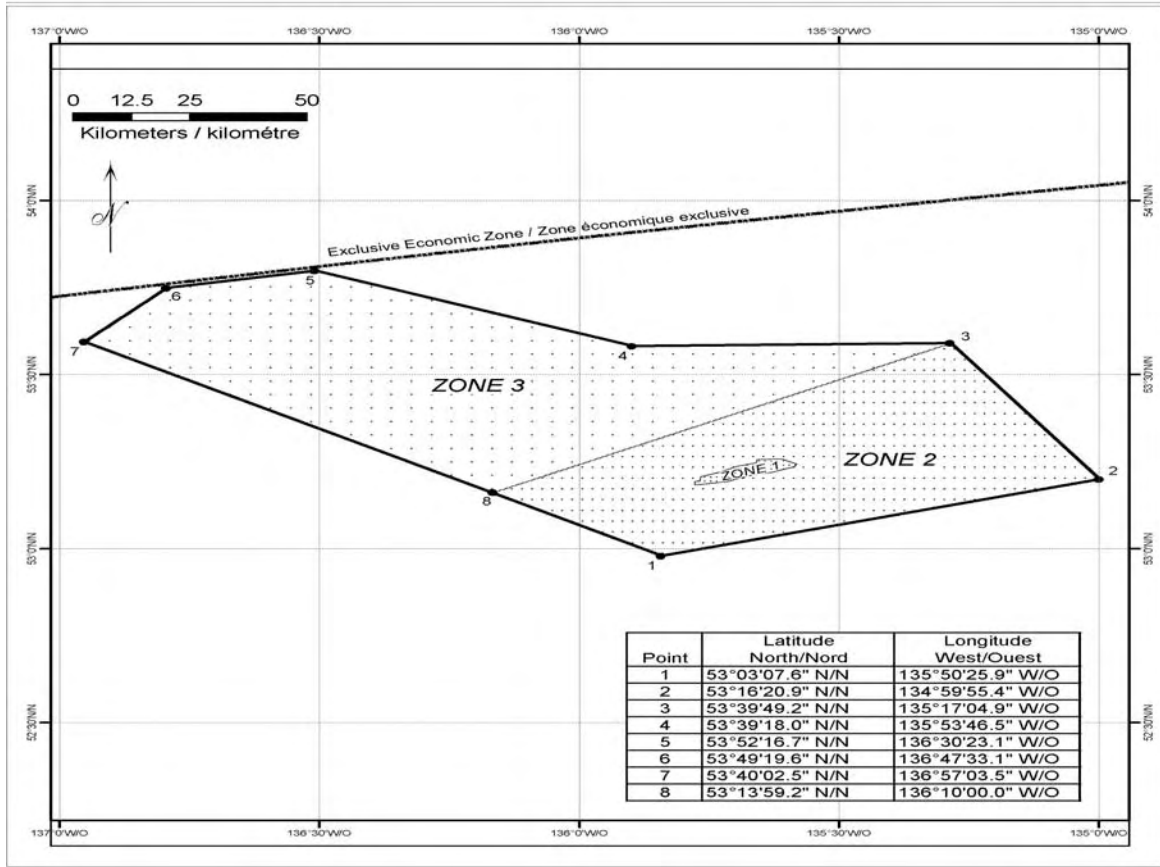


Figure 4. SGAan Kinghlas-Bowie Seamount Marine Protected Area. Boundary coordinates are shown here in degrees-minutes-seconds (DMS-format), as per the format in the *Bowie Seamount Marine Protected Area Regulations, 2008*.



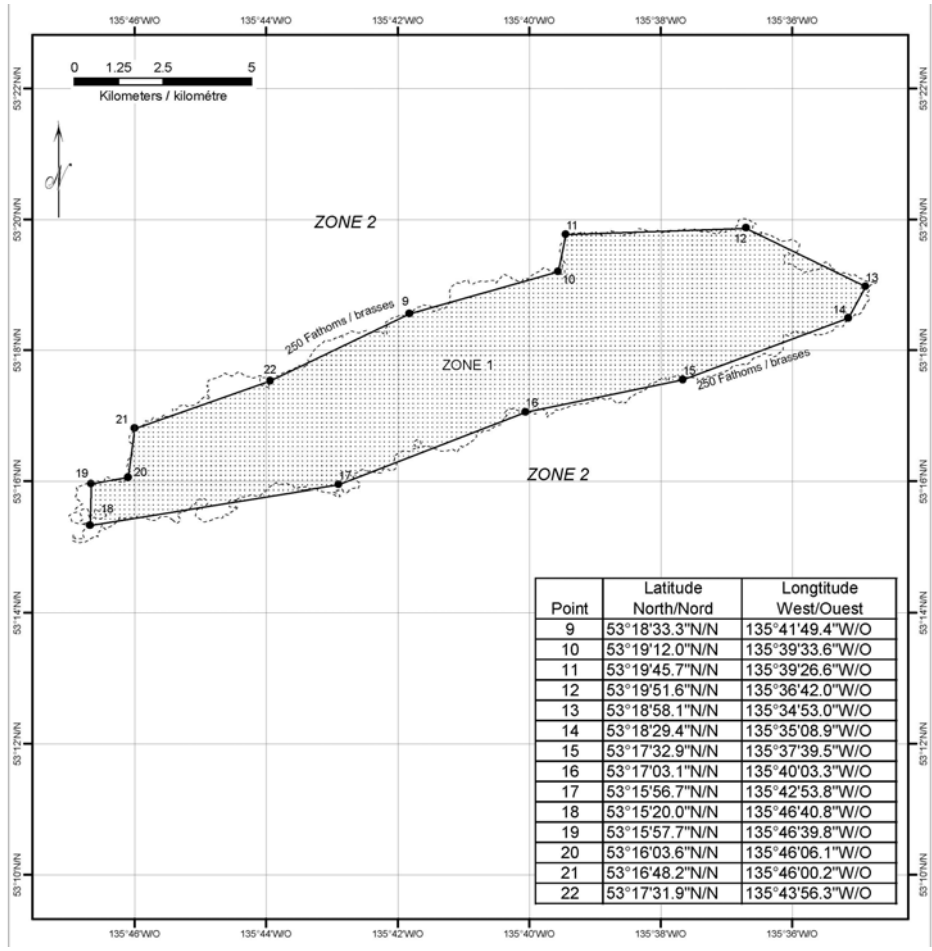


Figure 5. SGAan Kinghlas-Bowie Seamount Marine Protected Area Zones. Zone 1 coordinates are shown here in degrees-minutes-seconds (DMS-format), as per the format in the *Bowie Seamount Marine Protected Area Regulations, 2008*.

**Appendix 8: 2014/2015 Groundfish Trawl Commercial Harvest Plan**

**TABLE OF CONTENTS**

1.	MANAGEMENT CHANGES AND REMINDERS FOR 2014/2015 .....	3
1.1.	In-season Changes/Updates .....	3
1.2.	Offshore Pacific Hake Management Plan .....	3
1.3.	Revised Total Allowable Catches .....	3
1.4.	Eulachon added as a prohibited species .....	3
1.5.	Revised Boundary for Dixon Entrance/Hecate Strait trawl closure.....	3
1.6.	Use of Fish for Research Purposes .....	3
1.7.	At-Sea Observers and Electronic Monitoring .....	3
1.8.	Prohibition of Finning of Sharks.....	4
1.9.	Pilot Bocaccio Rebuilding Measures .....	4
1.10.	Online Licencing.....	4
1.11.	Discontinuation of Season Extension .....	5
1.12.	Strait of George Sponge Reef Voluntary Avoidance Measures.....	5
1.13.	Big skate and Longnose skate allocation process .....	5
2.	APPLICATION.....	6
3.	OPEN TIMES .....	6
4.	FISHING AREAS .....	6
5.	SPECIES CLOSURES .....	6
5.1.	Lingcod .....	6
5.2.	Rockfish.....	6
6.	HABITAT CONSERVATION BOTTOM TRAWL OPEN AND CLOSED AREAS .....	6
6.1.	Areas Open to Bottom Trawling .....	7
6.2.	Areas Closed to Bottom Trawling .....	17
7.	IN-SEASON GROUND FISH TRAWL CLOSURES - OUTSIDE WATERS .....	20
7.1.	Rockfish Conservation Areas .....	20
7.2.	Gwaii Haanas National Marine Conservation Area.....	21
7.3.	Haida Gwaii .....	22
7.4.	Glass Sponge Reef Closures .....	22
7.5.	McIntyre Bay/Masset.....	23
7.6.	Tide Marks.....	23
7.7.	Hecate Strait/Dixon Entrance - Protection of Pacific Cod.....	24
7.8.	Lower West Hecate Strait/Dixon Entrance - Protection of Soft Shell Crabs.....	25
7.9.	Lower West Coast Vancouver Island - Protection of Pacific Cod.....	26
7.10.	Area 23 (Barkley Sound) .....	27
7.11.	Area 24 (Clayoquot Sound) .....	28
8.	IN-SEASON GROUND FISH TRAWL CLOSURES - INSIDE WATERS .....	28
8.1.	Rockfish Conservation Areas .....	28
8.2.	Satellite Channel .....	28
8.3.	Gulf - Bottom Trawl Closures by Subarea .....	29
8.4.	Gulf - Mid-water Trawl Closures by Subarea.....	30
8.5.	Strait of Georgia Sponge Reef Voluntary Avoidance Measures .....	31
9.	GEAR.....	33
9.1.	Mesh Size.....	33
9.2.	Mesh Measuring Procedure .....	33
9.3.	Gear Restrictions.....	33
9.4.	Cod-end Protection Device .....	34
10.	LICENSING.....	35
10.1.	Licence Category .....	35
10.2.	Application Fees .....	35
10.3.	Licence Application and Issuance .....	36

10.4.	Licence Documents.....	38
10.5.	Vessel Replacement Rules for Groundfish Trawl.....	38
11.	<b>GROUNDFISH SPECIES AND ALLOWABLE CATCHES.....</b>	<b>39</b>
11.1.	Prohibited Species.....	39
11.2.	Species Permitted to be Fished.....	39
11.3.	Research Allocation.....	41
11.4.	Annual Trawl Total Allowable Catches.....	42
11.5.	Bocaccio Rockfish Measures.....	44
11.6.	Prohibition on Shark Finning.....	44
11.7.	Groundfish Size Limits.....	44
12.	<b>TRAWL INDIVIDUAL VESSEL QUOTA ALLOCATIONS.....</b>	<b>45</b>
13.	<b>TRAWL INDIVIDUAL VESSEL ALLOCATION FORMULA.....</b>	<b>45</b>
13.1.	Initial 1997 Allocation Formula.....	45
13.2.	Annual Allocation of Individual Vessel Quota.....	45
14.	<b>INDIVIDUAL VESSEL QUOTA REALLOCATION RULES.....</b>	<b>46</b>
14.1.	Reallocation Rules for Inter-Sector Non-T IVQ.....	46
14.2.	Groundfish Trawl 2014/2015 Reallocation Sector Rules.....	46
14.3.	Individual Vessel Quota Species Cap.....	47
14.4.	Individual Vessel Quota Holdings Cap.....	48
14.5.	Groundfish Equivalents.....	48
14.6.	Quota Overage/Underage Rules.....	49
15.	<b>GROUNDFISH DEVELOPMENT AUTHORITY.....</b>	<b>51</b>
15.1.	Groundfish Development Quota.....	51
15.2.	Code of Conduct Quota.....	52
16.	<b>CATCH MONITORING AND VALIDATION.....</b>	<b>52</b>
16.1.	Catch Reporting.....	52
16.2.	Port Monitoring.....	52
16.3.	At Sea Monitoring.....	53
16.4.	Conversion Factors.....	56
17.	<b>HALIBUT BY-CATCH MANAGEMENT PLAN.....</b>	<b>56</b>
17.1.	Halibut Prohibition.....	56
17.2.	Halibut Mortality Fleet Cap.....	56
17.3.	Halibut Species Mortality Cap.....	56
17.4.	Halibut By-catch Reallocation.....	56
17.5.	Halibut By-catch Quota Overage.....	57
17.6.	Halibut By-catch Underage.....	57
18.	<b>HABITAT CONSERVATION MEASURES: CORALS AND SPONGES.....</b>	<b>57</b>
18.1.	Coral and Sponge Retention Rules.....	58
18.2.	Fleet-wide Habitat Bycatch Conservation Limit.....	58
18.3.	Corals and Sponges Subject to Management Measures.....	58
18.4.	Habitat Bycatch Conservation Limit Mortality Cap.....	58
18.5.	Habitat Bycatch Conservation Limit Reallocation.....	58
18.6.	Habitat Bycatch Conservation Limit Quota Overage.....	58
18.7.	Habitat Bycatch Conservation Limit Underage.....	58
18.8.	Habitat Conservation Review Committee.....	59
18.9.	Encounter Protocol.....	59
18.10.	Areas Permitted to be Fished.....	60
19.	<b>FISH RELEASED AT SEA.....</b>	<b>61</b>
19.1.	Mortality Rates.....	62
20.	<b>SPECIES AT RISK SHARK ENCOUNTER PROTOCOL.....</b>	<b>63</b>
21.	<b>HAKE FISHERY.....</b>	<b>64</b>
22.	<b>EXAMPLE OF GROUNDFISH TRAWL FISHING LOGBOOK.....</b>	<b>65</b>

## **1. MANAGEMENT CHANGES AND REMINDERS FOR 2014/2015**

Following is a summary of changes adopted for the Groundfish trawl fishery for the 2014/2015 season following consultation with the Groundfish Trawl Advisory Committee (GTAC). Refer to the specific section within the plan for details of these changes.

### **1.1. In-season Changes/Updates**

In-season updates are available on the Fishery Notice website at: [http://www-ops2.pac.dfo-mpo.gc.ca/xnet/content/fns/index.cfm?pg=search\\_options&lang=en&id=commercial](http://www-ops2.pac.dfo-mpo.gc.ca/xnet/content/fns/index.cfm?pg=search_options&lang=en&id=commercial).

In-season Sector Catch and Sector Cap summaries are updated daily and can be found at: <http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/index-eng.htm>

### **1.2. Offshore Pacific Hake Management Plan**

Offshore Pacific hake management measures, including the Total allowable catch (TAC) for the 2014 season are not included in this document and will be released inseason as an addendum to this harvest plan.

### **1.3. Revised Total Allowable Catches**

Based on updated current information, application of DFO's *Fishery Decision-Making Framework Incorporating the Precautionary Approach*, and consultation with interested parties, revised total allowable catch levels (TACs) have been established for Trawl sector for Sablefish, Silvergray Rockfish, Rock Sole and Petrale Sole.

### **1.4. Eulachon added as a prohibited species**

For the 2014/2015 season, DFO has prohibited the retention of Eulachon (*Thaleichthys pacificus*) by all groundfish trawl licenced vessels.

### **1.5. Revised Boundary for Dixon Entrance/Hecate Strait trawl closure**

The northern closure boundary has been altered to allow for additional fishing opportunities in the Hecate Strait area during the bottom trawl closure in effect from June 1<sup>st</sup> to July 15<sup>th</sup>. New coordinates can be found in Section 7.8 of this plan.

### **1.6. Use of Fish for Research Purposes**

For the 2014/2015 season DFO has accounted for unavoidable mortalities incurred during annual Groundfish Trawl Multi-species survey. DFO and the Trawl industry have agreed to a reduction in the commercial Groundfish Trawl Total Allowable Catch limits (TACs) prior to allocation to groundfish trawl licences (see section 11.3 of this harvest plan). These mortalities will help finance the survey through a joint project agreement between the Canadian Groundfish Research and Conservation Society and the Department.

### **1.7. At-Sea Observers and Electronic Monitoring**

Reminder, that as of April 1, 2013, DFO no longer shares the costs of the at-sea observer or electronic monitoring programs. The commercial groundfish fishing industry will directly contract with at-sea observer service providers that are certified by the Canadian General Standards Board and designated by DFO. Interested companies must apply to

the Canadian General Standards Board to become certified, and then, to the Department to become designated as a service provider for at-sea observer services beginning on April 1, 2013. Industry will also directly contract with electronic monitoring service providers approved by the Department as meeting the requirements for the provision of electronic monitoring services set out in the groundfish licence conditions and Appendix 2 of the groundfish IFMP.

#### **1.8. Prohibition of Finning of Sharks**

The prohibition of the finning of sharks off the west coast of Canada implemented in the 2012 fishing season remains in effect. See Section 11.6.

#### **1.9. Pilot Bocaccio Rebuilding Measures**

Based on updated science information, DFO introduced Bocaccio catch reduction targets from 2012 catch levels of approximately 137 tonnes (inclusive of trawl, groundfish hook and line, salmon troll, and recreational sectors) to 75 tonnes over a three year period, in order to support stock rebuilding. Subsequent to the introduction of these measures, in November 2013, the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) reassessed Bocaccio and recommended it for listing under the Species At Risk Act (SARA) as “endangered”. The Department will review the efficacy of these pilot measures at the end of each fishing season and consider any additional measures necessary to support stock rebuilding. Please refer to section 9.1.5 of the IFMP, section 11.5 of this harvest plan, and conditions of licence for further information.

#### **1.10. Online Licencing**

Fisheries and Oceans Canada (DFO) introduced the web-based National Online Licensing System (NOLS) in the Spring of 2013. This web-based system replaces in-person counter service at Pacific Fishery Licensing Units. Fish harvesters/Licence Holders/vessel owners will now use the new online system to view, pay for and print their commercial fishing licences, licence conditions and/or receipts.

Fish harvesters must log into the National Online Licensing System to register and activate their accounts, using the DFO Passcode that has been mailed to them, in order to pay the fees and request issuance of a licence.

Licence renewal and payment of fees is mandatory on an annual basis prior to the expiry date of each fishery, in order to maintain the eligibility to be issued the licence in the future. A licence eligibility will cease if it is not renewed annually.

In early 2014, the need to submit the applicable forms will continue to be necessary where a designated vessel or option is required. Licensing forms will no longer collect information on “crew count” or “individuals designated to request amendments”. The Groundfish Management Unit will be collecting “individuals designated to request amendments” on their licence amendment forms. The applicable forms will be sent to vessel owners/licence eligibility holders by mail and the payment required to be processed through the National Online Licensing System. To avoid delays, please ensure the payment and option information is submitted to DFO at the same time.

Upon the Department receiving the required payment, applicable documentation and information, the licence will be issued and notification will be sent via email to advise

Licence Holders/vessel owners that a change has been made to the licence holder's online account. The licence documents, licence conditions and receipt will be available to be printed at that time.

Later in 2014, a "request" feature to collect designated vessel and option information will be available through the National Online Licensing System and the applicable forms once necessary will no longer be required. Groundfish Trawl vessel owners/licence holders will then need to submit the fee payment and option/vessel information online. Until such time, vessel owners/licence holders will continue to submit the necessary form to the Pacific Fishery Licence Unit while making the fee payments through the National Online Licensing System.

For transactions that are not yet available in the National Online Licensing System (e.g. Vessel replacements and nominations), licensing services will continue to be available either through telephone (1-877-535-7307), e-mail (fishing-peche@dfo-mpo.gc.ca), or fax (604-666-5855). Please be sure to visit the Pacific Region Licensing website and subscribe to fishery notices for updates on the National Online Licensing System and licensing services: <http://www.pac.dfo-mpo.gc.ca/fm-gp/licence-permis/index-eng.html>.

Information on the new system may be found on the DFO internet site at: <http://www.dfo-mpo.gc.ca/fm-gp/sdc-cps/licence-permis-eng.htm>.

#### **1.11. Discontinuation of Season Extension**

As in 2012 and 2013, fishing season extensions beyond the regular commercial season closing date of February 20, 2015, will not be available.

#### **1.12. Strait of George Sponge Reef Voluntary Avoidance Measures**

DFO continues to move forward in the formal protection of the identified glass sponges reefs found with the Strait of Georgia. Currently the formal closure the use of bottom contact fishing activities on these reefs is under consideration for possible inseason implementation. In the interim and in support of the shared objective for providing formal protection of the glass sponge reefs, the Department is requesting that all harvesters using bottom contact fishing gear voluntarily avoid known glass sponge reefs identified in the Strait of Georgia (Section 8.5 for coordinates and illustration of reef locations). DFO has embarked in an ecological risk assessment process whereby anticipated protection measures will be developed in partnership with First Nations, commercial and recreational industries and other stakeholders in 2014.

#### **1.13. Big skate and Longnose skate allocation process**

Consistent with the Department's direction of explicit and transparent allocations and to further promote stewardship of skate species, formal discussions between the DFO and commercial groundfish fishery sectors were initiated in 2013 to change the commercial skate fishery management and to formulate sector allocations for Big and Longnose skate. As result of DFO's initiation of these discussions all commercial skate fishers are hereby notified that catches of Big and Longnose Skate occurring in the 2013 fishing season and beyond will not be used when determining future groundfish sector catch allocations.

This action is taken to reduce the impact of speculative fishing that may occur as a result of discussions on sector allocations and management measures for both skate species. Advice on final sector allocations and new management measures will be formulated through extensive consultations with fishing interests.

## **2. APPLICATION**

The management strategies and harvest levels contained in this plan apply to vessels operating under the authority of a 2014/2015 groundfish trawl licence off the west coast of Canada.

## **3. OPEN TIMES**

With the exception of those seasonal and permanent closures noted in this plan, or closures announced in-season the groundfish trawl fishery will be open from February 21, 2014 to February 20, 2015. Information on in-season changes can be found by accessing the Department's Groundfish Internet site at:

<http://www.pac.dfo-mpo.gc.ca/fm-gp/commercial/ground-fond/index-eng.htm>

## **4. FISHING AREAS**

Fishing is permitted coast wide with the exception of annual and season closures described in sections 5, 6, 7 and 8 below and those areas set out within in season variation orders issued by Fisheries and Oceans Canada. In-season changes are announced through the Fisheries Public Notices system that can be found at the Department's internet site:

<http://www-ops2.pac.dfo-mpo.gc.ca/xnet/content/fns/index.cfm>

## **5. SPECIES CLOSURES**

The following species closures (non-retention) are in effect.

### **5.1. Lingcod**

Closed year-round in Areas 12 to 20 and 29, (includes all of Johnstone Strait, Strait of Georgia and Juan de Fuca Strait).

### **5.2. Rockfish**

Closed year-round in Areas 12 to 20 and 29, (includes all of Johnstone Strait, Strait of Georgia and Juan de Fuca Strait).

## **6. HABITAT CONSERVATION BOTTOM TRAWL OPEN AND CLOSED AREAS**

On April 2, 2012 all Canadian Fisheries waters of the Pacific Ocean, except Areas 12 to 20 and 29, and those areas described in 6.1 but not including the closed areas set out in section 6.2, were closed to fishing with bottom trawl gear year round.

All waters of Areas 12 to 20 and 29 and those found within the areas described in section 6.1 open to bottom trawl fishing, are also subject to seasonal area and time closures set out in sections 7 and 8 below and those areas set out within inseason variation orders issued by Fisheries and Oceans Canada.

The intent of this closure is to “freeze the bottom trawl footprint” and implement the industry agreed upon habitat conservation measures for protection of corals and sponges in the Pacific Region groundfish trawl fishery. Details of the measures are set out in Section 18 of this plan.

### 6.1. Areas Open to Bottom Trawling

Those areas open to bottom trawling include;

The area bounded by a line starting at the following coordinates:		
Latitude	Longitude	
49° 59.809 N	127° 43.229 W	To
49° 53.888 N	127° 39.429 W	To
49° 47.009 N	127° 36.857 W	To
49° 46.648 N	127° 32.447 W	To
49° 42.351 N	127° 24.458 W	To
49° 42.125 N	127° 09.255 W	To
49° 33.404 N	126° 52.533 W	To
49° 22.832 N	126° 42.341 W	To
49° 22.063 N	126° 44.803 W	To
49° 16.977 N	126° 31.126 W	To
49° 12.761 N	126° 23.065 W	To
49° 01.174 N	126° 08.749 W	To
48° 59.315 N	126° 01.941 W	To
48° 53.013 N	125° 57.508 W	To
48° 50.187 N	126° 02.869 W	to
48° 40.616 N	125° 56.635 W	to
48° 39.580 N	126° 03.953 W	to
48° 32.282 N	126° 06.531 W	to
48° 27.959 N	126° 03.394 W	to
48° 27.126 N	125° 53.142 W	to
48° 22.176 N	125° 49.761 W	to
48° 21.819 N	125° 37.948 W	to
48° 25.525 N	125° 36.233 W	to
48° 28.736 N	125° 46.117 W	to
48° 38.893 N	125° 47.339 W	to
48° 43.008 N	125° 54.257 W	to
48° 45.763 N	125° 54.296 W	to
48° 47.041 N	125° 45.673 W	to
48° 46.597 N	125° 39.763 W	to
48° 46.817 N	125° 37.872 W	to
48° 50.508 N	125° 39.294 W	to
48° 50.046 N	125° 52.259 W	to
48° 59.401 N	125° 49.371 W	to
48° 59.928 N	125° 41.175 W	to
48° 56.459 N	125° 35.551 W	to
48° 51.113 N	125° 25.062 W	to
48° 43.139 N	125° 14.701 W	to
48° 40.495 N	124° 59.612 W	to
48° 40.055 N	124° 52.992 W	to
48° 36.186 N	124° 45.211 W	to
48° 35.510 N	124° 43.150 W	to



48° 29.631 N	124° 43.150 W	to
48° 30.051 N	124° 45.095 W	to
48° 30.319 N	124° 47.217 W	to
48° 30.402 N	124° 49.164 W	to
48° 30.356 N	124° 51.370 W	to
48° 30.050 N	124° 54.089 W	to
48° 29.579 N	124° 57.163 W	to
48° 28.630 N	125° 01.051 W	to
48° 27.678 N	125° 04.484 W	to
48° 26.944 N	125° 06.784 W	to
48° 25.441 N	125° 11.115 W	to
48° 24.593 N	125° 13.299 W	to
48° 22.587 N	125° 17.934 W	to
48° 21.029 N	125° 21.263 W	to
48° 19.867 N	125° 24.738 W	to
48° 18.945 N	125° 28.268 W	to
48° 17.879 N	125° 32.336 W	to
48° 16.897 N	125° 35.784 W	to
48° 14.405 N	125° 43.311 W	to
48° 13.269 N	125° 46.384 W	to
48° 11.763 N	125° 50.270 W	to
48° 10.544 N	125° 53.663 W	to
48° 10.626 N	125° 55.597 W	to
48° 13.868 N	125° 56.102 W	to
48° 12.664 N	126° 00.427 W	to
48° 13.286 N	126° 02.020 W	to
48° 15.002 N	126° 00.618 W	to
48° 17.494 N	126° 02.081 W	to
48° 20.205 N	126° 00.343 W	to
48° 20.245 N	125° 55.877 W	to
48° 20.581 N	125° 54.903 W	to
48° 20.878 N	125° 55.008 W	to
48° 21.041 N	125° 54.208 W	to
48° 21.353 N	125° 53.594 W	to
48° 21.545 N	125° 53.613 W	to
48° 21.880 N	125° 54.126 W	to
48° 22.288 N	125° 52.993 W	to
48° 22.448 N	125° 53.096 W	to
48° 22.471 N	125° 53.957 W	to
48° 22.566 N	125° 55.954 W	to
48° 23.460 N	125° 55.366 W	to
48° 23.629 N	125° 56.074 W	to
48° 21.951 N	125° 57.530 W	to
48° 21.111 N	125° 58.360 W	to
48° 20.663 N	126° 00.056 W	to
48° 19.270 N	126° 03.511 W	to
48° 18.739 N	126° 06.761 W	to
48° 18.684 N	126° 10.750 W	to
48° 21.061 N	126° 11.770 W	to
48° 21.126 N	126° 14.451 W	to
48° 26.118 N	126° 20.174 W	to

48° 29.126 N	126° 22.016 W	to
48° 33.379 N	126° 20.178 W	to
48° 34.467 N	126° 23.048 W	to
48° 40.353 N	126° 27.916 W	to
48° 40.543 N	126° 31.921 W	to
48° 42.725 N	126° 35.986 W	to
48° 44.768 N	126° 38.362 W	to
48° 45.685 N	126° 40.717 W	to
48° 48.664 N	126° 43.985 W	to
48° 52.138 N	126° 41.271 W	to
48° 51.742 N	126° 44.543 W	to
48° 53.256 N	126° 48.816 W	to
48° 52.156 N	126° 55.684 W	to
48° 57.252 N	126° 57.647 W	to
49° 01.290 N	127° 00.513 W	to
49° 03.862 N	127° 01.422 W	to
49° 06.191 N	127° 03.120 W	to
49° 07.635 N	127° 06.958 W	to
49° 10.438 N	127° 09.581 W	to
49° 13.031 N	127° 08.704 W	to
49° 17.868 N	127° 13.994 W	to
49° 22.002 N	127° 20.499 W	to
49° 24.518 N	127° 21.276 W	to
49° 26.396 N	127° 23.957 W	to
49° 28.473 N	127° 30.164 W	to
49° 30.533 N	127° 27.433 W	to
49° 31.898 N	127° 30.217 W	to
49° 28.077 N	127° 39.588 W	to
49° 31.783 N	127° 41.843 W	to
49° 32.573 N	127° 43.864 W	to
49° 37.243 N	127° 45.631 W	to
49° 37.822 N	127° 47.190 W	to
49° 40.544 N	127° 48.462 W	to
49° 45.440 N	127° 47.395 W	to
49° 44.699 N	127° 49.937 W	to
49° 49.856 N	128° 00.322 W	to
49° 53.598 N	128° 01.591 W	to
49° 57.176 N	128° 08.093 W	to
49° 59.447 N	128° 11.103 W	to
49° 59.375 N	128° 08.656 W	to
49° 55.224 N	128° 01.460 W	to
49° 55.539 N	127° 59.073 W	to
49° 56.421 N	127° 59.161 W	to
49° 57.492 N	127° 58.095 W	to
49° 57.929 N	127° 55.615 W	to
49° 57.928 N	127° 55.615 W	to
49° 58.634 N	127° 53.415 W	to
49° 57.570 N	127° 48.395 W	to
49° 58.406 N	127° 46.679 W	to
49° 59.707 N	127° 46.067 W	then back to the starting point at
49° 59.809 N	127° 43.229 W	

The area bounded by a line starting at the following coordinates:		
Latitude	Longitude	
50° 38.618 N	128° 23.065 W	to
50° 35.471 N	128° 18.171 W	to
50° 29.032 N	128° 18.023 W	to
50° 28.974 N	128° 15.804 W	to
50° 27.337 N	128° 15.830 W	to
50° 25.800 N	128° 11.004 W	to
50° 24.400 N	128° 01.542 W	to
50° 22.383 N	128° 01.169 W	to
50° 21.363 N	128° 06.377 W	to
50° 10.412 N	128° 03.688 W	to
50° 06.562 N	127° 58.430 W	to
50° 05.853 N	128° 00.459 W	to
50° 06.917 N	128° 02.523 W	to
50° 08.695 N	128° 05.470 W	to
50° 10.836 N	128° 07.862 W	to
50° 14.931 N	128° 07.572 W	to
50° 18.050 N	128° 17.465 W	to
50° 19.418 N	128° 19.306 W	to
50° 19.612 N	128° 26.330 W	to
50° 21.594 N	128° 28.965 W	to
50° 24.326 N	128° 29.531 W	<b>to</b>
50° 27.319 N	128° 33.495 W	to
50° 26.724 N	128° 35.989 W	to
50° 32.725 N	128° 36.957 W	to
50° 32.263 N	128° 39.454 W	to
50° 34.931 N	128° 41.332 W	to
50° 34.762 N	128° 45.516 W	to
50° 37.004 N	128° 47.791 W	to
50° 39.490 N	128° 53.501 W	to
50° 42.471 N	129° 01.154 W	to
50° 43.871 N	128° 58.204 W	to
50° 43.382 N	128° 54.963 W	to
50° 42.505 N	128° 44.999 W	to
50° 37.421 N	128° 38.210 W	to
50° 38.763 N	128° 30.162 W	to
50° 42.195 N	128° 30.926 W	to
50° 44.375 N	128° 28.568 W	to
50° 45.137 N	128° 25.804 W	then back to the starting point at
50° 38.618 N	128° 23.065 W	
The area bounded by a line starting at the following coordinates:		
Latitude	Longitude	
50° 44.881 N	129° 20.011 W	to
50° 44.874 N	129° 22.292 W	to
50° 48.362 N	129° 25.674 W	to
50° 51.571 N	129° 37.166 W	to

50° 54.971 N	129° 35.183 W	to
50° 58.318 N	129° 32.185 W	to
50° 57.793 N	129° 30.065 W	to
50° 54.210 N	129° 32.539 W	to
50° 50.452 N	129° 19.559 W	to
50° 46.537 N	129° 17.162 W	then back to the starting point at
50° 44.881 N	129° 20.011 W	
The area bounded by a line starting at the following coordinates:		
Latitude	Longitude	
51° 02.273 N	127° 50.163 W	to
51° 02.072 N	127° 55.343 W	to
51° 04.116 N	127° 56.344 W	to
51° 04.497 N	127° 52.645 W	then back to the starting point at
51° 02.273 N	127° 50.163 W	
The area bounded by a line starting at the following coordinates:		
Latitude	Longitude	
51° 07.405 N	129° 56.915 W	to
51° 07.270 N	130° 04.351 W	to
51° 09.836 N	130° 08.498 W	to
51° 15.873 N	130° 10.331 W	to
51° 21.286 N	130° 11.087 W	to
51° 23.380 N	130° 05.740 W	to
51° 25.938 N	130° 03.154 W	to
51° 25.898 N	129° 59.662 W	to
51° 23.877 N	129° 57.199 W	to
51° 18.293 N	129° 55.567 W	to
51° 16.561 N	129° 51.884 W	to
51° 14.076 N	129° 49.987 W	then back to the starting point at
51° 07.405 N	129° 56.915 W	
The area bounded by a line starting at the following coordinates:		
Latitude	Longitude	
51° 59.143 N	131° 12.671 W	to
51° 58.833 N	131° 15.927 W	to
52° 01.643 N	131° 20.418 W	to
52° 03.820 N	131° 22.520 W	to
52° 06.049 N	131° 21.160 W	then back to the starting point at
51° 59.143 N	131° 12.671 W	
The area bounded by a line starting at the following coordinates:		
Latitude	Longitude	
52° 07.470 N	131° 30.193 W	to
52° 06.309 N	131° 33.328 W	to
52° 08.119 N	131° 35.370 W	to
52° 10.819 N	131° 35.365 W	to
52° 09.689 N	131° 30.156 W	then back to the starting point at
52° 07.470 N	131° 30.193 W	
The area bounded by a line starting at the following coordinates:		
Latitude	Longitude	

51° 54.657 N	129° 41.313 W	to
51° 52.686 N	129° 38.069 W	to
51° 53.976 N	129° 30.228 W	to
51° 50.454 N	129° 26.740 W	to
51° 58.380 N	129° 09.881 W	to
51° 56.471 N	129° 02.365 W	to
51° 48.494 N	129° 17.570 W	to
51° 47.337 N	129° 01.050 W	to
51° 40.707 N	129° 00.811 W	to
51° 40.134 N	129° 13.986 W	to
51° 34.503 N	129° 22.756 W	to
51° 38.199 N	129° 30.287 W	to
51° 39.067 N	129° 36.221 W	to
51° 37.268 N	129° 50.466 W	to
51° 33.959 N	130° 00.194 W	to
51° 34.818 N	130° 01.657 W	to
51° 37.358 N	129° 56.351 W	to
51° 43.221 N	130° 05.574 W	to
51° 42.662 N	130° 08.050 W	to
51° 44.182 N	130° 10.818 W	to
51° 42.925 N	130° 18.257 W	to
51° 41.201 N	130° 20.815 W	to
51° 39.513 N	130° 20.291 W	to
51° 35.575 N	130° 23.132 W	to
51° 34.548 N	130° 28.777 W	to
51° 36.948 N	130° 31.222 W	to
51° 39.863 N	130° 28.002 W	to
51° 42.404 N	130° 31.708 W	to
51° 42.745 N	130° 28.443 W	to
51° 47.890 N	130° 22.202 W	to
51° 44.696 N	130° 17.952 W	to
51° 49.676 N	130° 06.443 W	to
51° 53.287 N	129° 48.197 W	to
51° 56.775 N	129° 44.206 W	to
52° 06.966 N	129° 51.434 W	to
52° 10.685 N	129° 46.233 W	to
52° 12.648 N	129° 38.233 W	to
52° 08.109 N	129° 32.781 W	then back to the starting point at
51° 54.657 N	129° 41.313 W	
<b>The area bounded by a line starting at the following coordinates:</b>		
<b>Latitude</b>	<b>Longitude</b>	
52° 03.954 N	128° 55.336 W	to
51° 59.325 N	128° 48.224 W	to
51° 59.325 N	128° 48.217 W	to
51° 55.078 N	128° 43.224 W	to
51° 54.560 N	128° 42.789 W	to
51° 54.831 N	128° 34.145 W	to

51° 47.559 N	128° 28.370 W	to
51° 42.017 N	128° 32.314 W	to
51° 35.503 N	128° 32.278 W	to
51° 33.385 N	128° 25.300 W	to
51° 30.791 N	128° 25.029 W	to
51° 30.936 N	128° 16.918 W	to
51° 22.691 N	128° 24.020 W	to
51° 18.696 N	128° 36.181 W	to
51° 18.696 N	128° 36.185 W	to
51° 15.841 N	128° 33.789 W	to
51° 15.841 N	128° 33.786 W	to
51° 08.117 N	128° 18.781 W	to
51° 06.956 N	128° 06.138 W	to
51° 02.091 N	127° 59.009 W	to
50° 56.652 N	127° 45.913 W	to
50° 55.973 N	127° 47.533 W	to
50° 58.632 N	127° 54.176 W	to
50° 59.414 N	128° 12.697 W	to
50° 52.745 N	128° 18.208 W	to
50° 49.565 N	128° 26.843 W	to
50° 49.452 N	128° 29.840 W	to
50° 55.430 N	128° 38.581 W	to
51° 00.068 N	128° 47.466 W	to
51° 04.941 N	128° 49.553 W	to
51° 07.224 N	128° 54.267 W	to
51° 10.198 N	128° 57.983 W	to
51° 10.071 N	129° 03.818 W	to
51° 06.393 N	129° 12.352 W	to
51° 03.100 N	129° 14.444 W	to
51° 01.443 N	129° 19.750 W	to
51° 01.644 N	129° 20.516 W	to
51° 04.094 N	129° 27.966 W	to
51° 20.925 N	129° 35.038 W	to
51° 23.104 N	129° 28.698 W	to
51° 25.763 N	129° 28.018 W	to
51° 30.246 N	129° 29.786 W	to
51° 29.482 N	129° 07.998 W	to
51° 31.113 N	128° 44.081 W	to
51° 36.092 N	128° 37.655 W	to
51° 41.088 N	128° 37.919 W	to
51° 45.335 N	128° 41.349 W	to
51° 54.335 N	128° 52.021 W	to
51° 53.705 N	128° 55.702 W	to
51° 56.489 N	129° 01.939 W	to
51° 59.270 N	128° 56.308 W	to
51° 59.270 N	128° 56.294 W	to
52° 04.081 N	129° 03.223 W	to

52° 11.441 N	129° 00.681 W	to
52° 14.861 N	128° 48.680 W	to
52° 13.823 N	128° 47.385 W	then back to the starting point at
52° 03.954 N	128° 55.336 W	
The area bounded by a line starting at the following coordinates:		
Latitude	Longitude	
52° 35.054 N	130° 55.583 W	to
52° 31.670 N	130° 59.281 W	to
52° 32.736 N	131° 07.172 W	to
52° 36.195 N	131° 19.911 W	to
52° 40.922 N	131° 22.686 W	to
52° 38.800 N	131° 12.817 W	to
52° 37.056 N	130° 53.908 W	then back to the starting point at
52° 35.054 N	130° 55.583 W	
The area bounded by a line starting at the following coordinates:		
Latitude	Longitude	
52° 33.275 N	129° 48.114 W	to
52° 33.182 N	129° 51.995 W	to
52° 41.577 N	129° 51.656 W	to
52° 42.199 N	129° 47.267 W	then back to the starting point at
52° 33.275 N	129° 48.114 W	
The area bounded by a line starting at the following coordinates:		
Latitude	Longitude	
52° 50.520 N	131° 15.200 W	to
52° 48.390 N	131° 16.876 W	to
52° 49.533 N	131° 21.444 W	to
52° 51.596 N	131° 24.032 W	to
52° 58.323 N	131° 15.551 W	to
52° 57.147 N	131° 12.567 W	to
52° 54.053 N	131° 15.026 W	then back to the starting point at
52° 50.520 N	131° 15.200 W	
The area bounded by a line starting at the following coordinates:		
Latitude	Longitude	
54° 18.674 N	130° 59.623 W	to
54° 03.706 N	130° 59.758 W	to
54° 01.410 N	131° 01.233 W	to
53° 50.284 N	130° 46.679 W	to
53° 46.895 N	130° 38.094 W	to
53° 41.169 N	130° 34.886 W	to
53° 36.807 N	130° 42.034 W	to
53° 33.471 N	130° 41.479 W	to
53° 29.299 N	130° 46.640 W	to
53° 24.501 N	130° 48.819 W	to
53° 21.670 N	130° 53.451 W	to
53° 16.566 N	130° 53.644 W	to
53° 14.010 N	130° 56.597 W	to
53° 07.703 N	130° 52.037 W	to

53° 07.840 N	130° 38.801 W	to
53° 04.241 N	130° 32.833 W	to
53° 03.996 N	130° 25.745 W	to
53° 07.288 N	130° 23.075 W	to
53° 04.267 N	130° 16.592 W	to
52° 57.877 N	130° 11.972 W	to
52° 52.193 N	130° 11.815 W	to
52° 43.435 N	130° 17.773 W	to
52° 30.892 N	130° 17.814 W	to
52° 31.777 N	130° 13.179 W	to
52° 20.299 N	130° 06.992 W	to
52° 26.107 N	129° 57.704 W	to
52° 27.833 N	129° 55.136 W	to
52° 29.171 N	129° 51.013 W	to
52° 26.752 N	129° 49.664 W	to
52° 25.312 N	129° 52.347 W	to
52° 15.127 N	129° 47.347 W	to
52° 18.012 N	130° 00.909 W	to
52° 05.301 N	130° 01.052 W	to
51° 56.240 N	130° 13.023 W	to
51° 48.290 N	130° 28.186 W	to
51° 43.047 N	130° 32.729 W	to
51° 43.462 N	130° 39.072 W	to
51° 39.030 N	130° 39.045 W	to
51° 36.642 N	130° 39.769 W	to
51° 36.397 N	130° 40.729 W	to
51° 37.470 N	130° 42.885 W	to
51° 40.987 N	130° 48.131 W	to
51° 45.587 N	130° 53.435 W	to
51° 47.857 N	130° 52.721 W	to
51° 52.003 N	130° 49.651 W	to
51° 56.272 N	130° 49.419 W	to
52° 04.297 N	130° 54.902 W	to
52° 07.655 N	130° 54.095 W	to
52° 11.891 N	130° 55.909 W	to
52° 14.847 N	130° 59.171 W	to
52° 23.835 N	131° 01.762 W	to
52° 27.415 N	130° 52.618 W	to
52° 17.901 N	130° 45.940 W	to
52° 12.105 N	130° 47.616 W	to
52° 06.160 N	130° 42.488 W	to
52° 05.566 N	130° 37.171 W	to
52° 11.708 N	130° 34.400 W	to
52° 21.956 N	130° 30.939 W	to
52° 27.801 N	130° 31.550 W	to
52° 49.195 N	130° 25.811 W	to
52° 56.149 N	130° 24.656 W	to



52° 56.915 N	130° 30.357 W	to
52° 53.680 N	130° 34.807 W	to
52° 54.575 N	130° 48.256 W	to
52° 58.778 N	130° 57.436 W	to
52° 59.189 N	131° 02.858 W	to
52° 57.056 N	131° 05.250 W	to
52° 57.813 N	131° 09.718 W	to
53° 06.218 N	131° 11.945 W	to
53° 17.027 N	131° 16.633 W	to
53° 16.048 N	131° 34.140 W	to
53° 21.923 N	131° 34.480 W	to
53° 27.367 N	131° 13.805 W	to
53° 35.051 N	131° 12.736 W	to
53° 49.320 N	131° 18.715 W	to
53° 51.369 N	131° 14.600 W	to
54° 09.886 N	131° 16.360 W	to
54° 13.834 N	131° 26.361 W	to
54° 06.417 N	132° 05.342 W	to
54° 09.146 N	132° 36.464 W	to
54° 09.038 N	132° 48.139 W	to
54° 11.352 N	132° 59.334 W	to
54° 16.410 N	133° 00.681 W	to
54° 16.767 N	133° 07.434 W	to
54° 11.731 N	133° 17.490 W	to
54° 06.217 N	133° 21.902 W	to
54° 02.313 N	133° 32.437 W	to
53° 54.732 N	133° 27.077 W	to
53° 43.318 N	133° 16.558 W	to
53° 38.039 N	133° 09.688 W	to
53° 31.137 N	133° 06.062 W	to
53° 07.009 N	132° 38.867 W	to
52° 59.038 N	132° 28.492 W	to
52° 58.062 N	132° 33.354 W	to
53° 04.998 N	132° 42.761 W	to
53° 09.515 N	132° 48.423 W	to
53° 09.829 N	132° 50.391 W	to
53° 11.663 N	132° 54.574 W	to
53° 13.697 N	133° 03.954 W	to
53° 16.739 N	133° 10.024 W	to
53° 25.181 N	133° 10.905 W	to
53° 25.602 N	133° 11.551 W	to
53° 26.500 N	133° 11.695 W	to
53° 27.245 N	133° 11.521 W	to
53° 27.898 N	133° 11.640 W	to
53° 28.745 N	133° 12.302 W	to
53° 29.794 N	133° 12.819 W	to
53° 31.938 N	133° 15.788 W	to

53° 35.386 N	133° 19.006 W	to
53° 39.269 N	133° 21.505 W	to
53° 40.714 N	133° 21.516 W	to
53° 41.780 N	133° 20.658 W	to
53° 43.756 N	133° 22.302 W	to
53° 44.552 N	133° 23.805 W	to
53° 50.006 N	133° 31.239 W	to
53° 51.217 N	133° 34.287 W	to
53° 57.264 N	133° 39.178 W	to
54° 08.455 N	133° 46.760 W	to
54° 09.051 N	133° 49.089 W	to
54° 18.663 N	133° 57.429 W	to
54° 20.646 N	133° 49.765 W	to
54° 16.330 N	133° 46.417 W	to
54° 16.714 N	133° 38.740 W	to
54° 23.088 N	133° 27.276 W	to
54° 26.473 N	133° 11.763 W	to
54° 21.057 N	133° 03.399 W	to
54° 20.545 N	132° 58.854 W	to
54° 24.518 N	132° 51.692 W	to
54° 22.254 N	132° 46.119 W	to
54° 18.379 N	132° 49.812 W	to
54° 18.038 N	132° 38.386 W	to
54° 15.682 N	132° 21.606 W	to
54° 18.606 N	131° 59.533 W	to
54° 23.291 N	131° 45.403 W	to
54° 24.546 N	131° 30.007 W	to
54° 27.791 N	131° 24.281 W	to
54° 30.901 N	131° 24.237 W	to
54° 35.278 N	131° 30.067 W	to
54° 40.095 N	131° 30.095 W	to
54° 40.145 N	131° 23.463 W	to
54° 34.702 N	131° 15.228 W	to
54° 31.897 N	130° 58.421 W	to
54° 21.867 N	131° 02.980 W	then back to the starting point at
54° 18.674 N	130° 59.623 W	

## 6.2. Areas Closed to Bottom Trawling

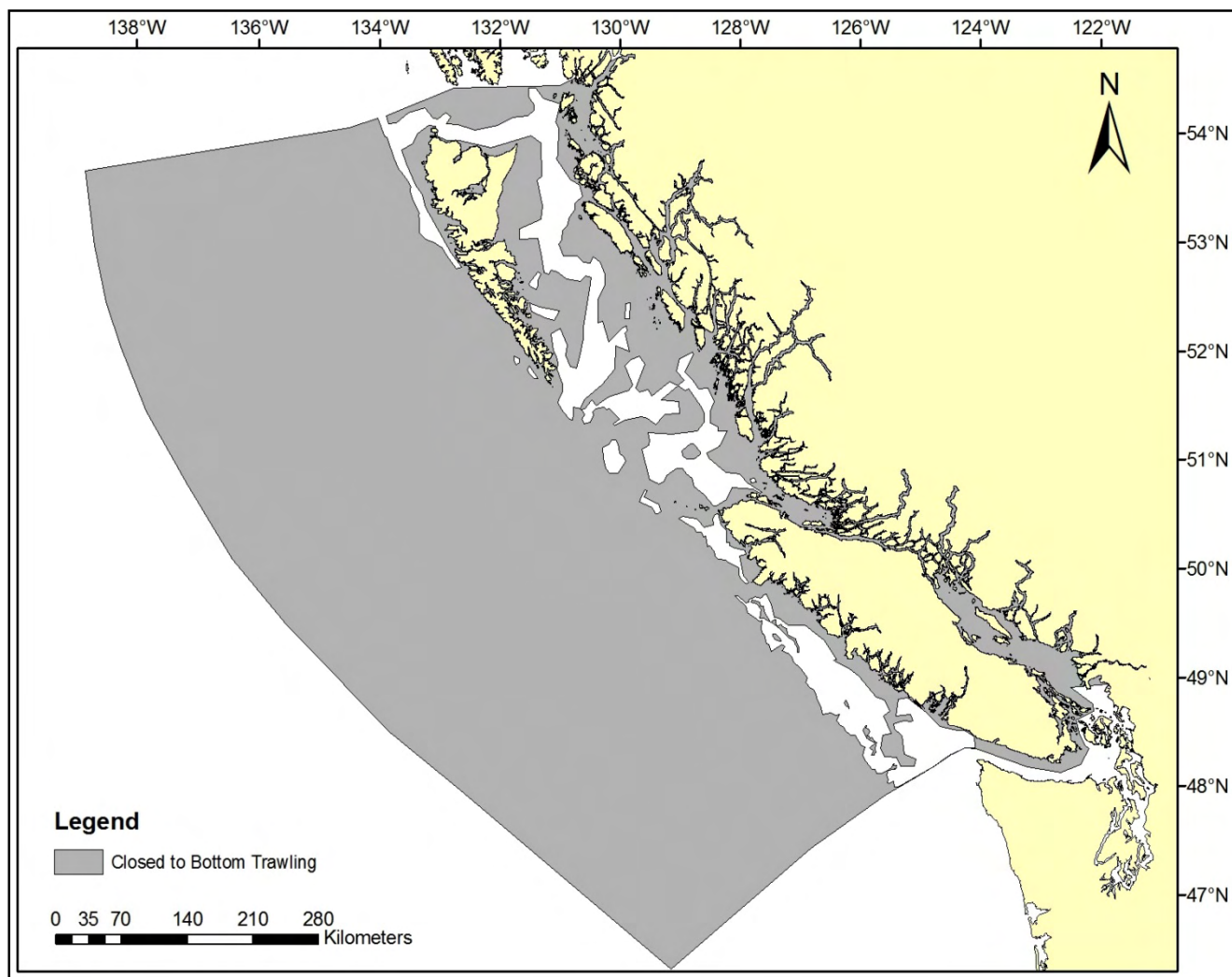
The following areas found within the area open for bottom trawl set out in 6.1 above are closed year round to bottom trawling. Please note that all graphic contained in the harvest plan are for illustration purposes only.

The area bounded by a line starting at the following coordinates:		
Latitude	Longitude	
49° 55.826 N	127° 56.782 W	to
49° 54.659 N	127° 52.063 W	to
49° 51.630 N	127° 48.329 W	to

49° 46.748 N	127° 49.226 W	to
49° 46.785 N	127° 45.893 W	to
49° 44.315 N	127° 39.851 W	to
49° 50.260 N	127° 45.337 W	to
49° 53.085 N	127° 45.844 W	to
49° 53.246 N	127° 48.890 W	to
49° 55.564 N	127° 49.078 W	to
49° 56.900 N	127° 56.246 W	then back to the starting point at
49° 55.826 N	127° 56.782 W	
The area bounded by a line starting at the following coordinates:		
Latitude	Longitude	
49° 45.317 N	127° 37.786 W	to
49° 44.162 N	127° 39.424 W	to
49° 41.972 N	127° 34.672 W	to
49° 39.943 N	127° 30.293 W	to
49° 35.788 N	127° 24.757 W	to
49° 33.471 N	127° 19.337 W	to
49° 31.809 N	127° 18.780 W	to
49° 29.887 N	127° 16.880 W	to
49° 27.190 N	127° 16.729 W	to
49° 27.378 N	127° 15.044 W	to
49° 30.106 N	127° 15.126 W	to
49° 32.366 N	127° 17.045 W	to
49° 34.753 N	127° 17.787 W	to
49° 36.086 N	127° 22.858 W	to
49° 36.737 N	127° 23.987 W	to
49° 37.638 N	127° 25.436 W	to
49° 40.461 N	127° 25.514 W	to
49° 41.460 N	127° 29.144 W	to
49° 42.804 N	127° 30.855 W	to
49° 42.287 N	127° 34.119 W	to
49° 43.551 N	127° 35.120 W	to
49° 45.631 N	127° 35.552 W	then back to the starting point at
49° 45.317 N	127° 37.786 W	
The area bounded by a line starting at the following coordinates:		
Latitude	Longitude	
49° 35.186 N	127° 31.480 W	to
49° 37.537 N	127° 35.559 W	to
49° 37.539 N	127° 37.938 W	to
49° 36.244 N	127° 37.918 W	to
49° 34.738 N	127° 35.929 W	to
49° 33.678 N	127° 32.327 W	to
49° 33.698 N	127° 31.097 W	then back to the starting point at
49° 35.186 N	127° 31.480 W	
The area bounded by a line starting at the following coordinates:		
Latitude	Longitude	
48° 56.083 N	126° 33.513 W	to

48° 55.163 N	126° 32.844 W	to
48° 57.506 N	126° 33.085 W	to
49° 00.099 N	126° 35.561 W	to
48° 58.766 N	126° 36.837 W	to
48° 57.172 N	126° 36.151 W	to
48° 56.415 N	126° 34.551 W	then back to the starting point at
48° 56.083 N	126° 33.513 W	
The area bounded by a line starting at the following coordinates:		
Latitude	Longitude	
48° 31.255 N	126° 12.828 W	to
48° 28.864 N	126° 15.021 W	to
48° 28.820 N	126° 11.931 W	to
48° 29.806 N	126° 12.056 W	to
48° 30.079 N	126° 11.010 W	to
48° 32.374 N	126° 11.017 W	to
48° 34.773 N	126° 10.434 W	to
48° 35.707 N	126° 09.618 W	to
48° 36.260 N	126° 11.520 W	to
48° 37.354 N	126° 12.403 W	to
48° 38.846 N	126° 13.715 W	to
48° 38.439 N	126° 15.356 W	to
48° 39.679 N	126° 16.143 W	to
48° 39.787 N	126° 18.207 W	to
48° 40.872 N	126° 16.169 W	to
48° 41.871 N	126° 15.574 W	to
48° 43.188 N	126° 15.818 W	to
48° 44.175 N	126° 18.513 W	to
48° 45.203 N	126° 17.872 W	to
48° 45.366 N	126° 18.449 W	to
48° 42.664 N	126° 21.652 W	to
48° 38.227 N	126° 18.146 W	to
48° 35.258 N	126° 10.986 W	to
48° 32.969 N	126° 15.921 W	then back to the starting point at
48° 31.255 N	126° 12.828 W	
The area bounded by a line starting at the following coordinates:		
Latitude	Longitude	
51° 17.465 N	128° 57.991 W	to
51° 15.444 N	128° 54.555 W	to
51° 15.435 N	128° 47.419 W	to
51° 16.255 N	128° 45.313 W	to
51° 16.255 N	128° 45.309 W	to
51° 18.251 N	128° 41.868 W	to
51° 18.587 N	128° 41.816 W	to
51° 19.585 N	128° 41.810 W	to
51° 23.870 N	128° 48.215 W	to
51° 23.915 N	128° 50.433 W	to
51° 20.020 N	128° 58.581 W	then back to the starting point at

51° 17.465 N	128° 57.991 W	
--------------	---------------	--



The above graphic is for illustration purposes only.

## 7. IN-SEASON GROUND FISH TRAWL CLOSURES - OUTSIDE WATERS

In addition to the closures set within section 6 the following area closures are also in effect for all trawl vessels during the 2014/2015 season. The closures described may change in-season and fishers are reminded to refer to current Fisheries Public Notices prior to conducting any fishing activity. A full description of Areas and Subareas referenced on these figures can be found in *the Pacific Fishery Management Area Regulations*. The illustrations set out below are for information purposes only.

### 7.1. Rockfish Conservation Areas

Currently there are 164 Rockfish Conservation Areas (RCAs) in effect and are outlined in the Rockfish Conservation Areas booklet. These booklets are available at any PFLU or can be downloaded from the Department's internet site at:

<http://www.pac.dfo-mpo.gc.ca/fm-gp/rec/species-especes/conservation-eng.htm>

## 7.2. Gwaii Haanas National Marine Conservation Area

Harvesters are reminded that the zones within the Gwaii Haanas National Marine Conservation Area Reserve as described below are closed to fishing (this includes both midwater and bottom trawl gear). For background information see IFMP section 8.4.

### 7.2.1. Burnaby Narrows

Those waters of Subareas 2-13 and 2-16 inside a line:		
commencing at	52°23.071 N	131°20.427 W
then east to	52°23.079 N	131°22.79 W
following the southern shoreline of Kat Island east to	52°23.104 N	131°22.193 W
then east to	52°23.303 N	131°21.277 W
following the western shoreline of Burnaby Island south to	52°20.982 N	131°20.427 W
then west to	52°20.733 N	131°21.063 W
then north following the eastern shoreline of Moresby Island back to the point of commencement.		

### 7.2.2. Louscoone Estuary

Those waters of Subareas 2-33 and 2-34 north of a line:		
drawn from	52°11.828 N	131°15.662 W
then true east to	52°12.269 N	131°14.579 W

### 7.2.3. Flamingo Estuary

Those waters of Subarea 2-37 north of a line:		
drawn from	52°14.523 N	131°22.24 W
then southeast to	52°14.245 N	131°21.481 W

### 7.2.4. Gowgaia Estuary

Those waters of Subarea 2-41 east of a line:		
drawn from	52°24.947 N	131°32.13 W
then southeast to	52°24.233 N	131°32.021 W

### 7.2.5. Cape Saint James

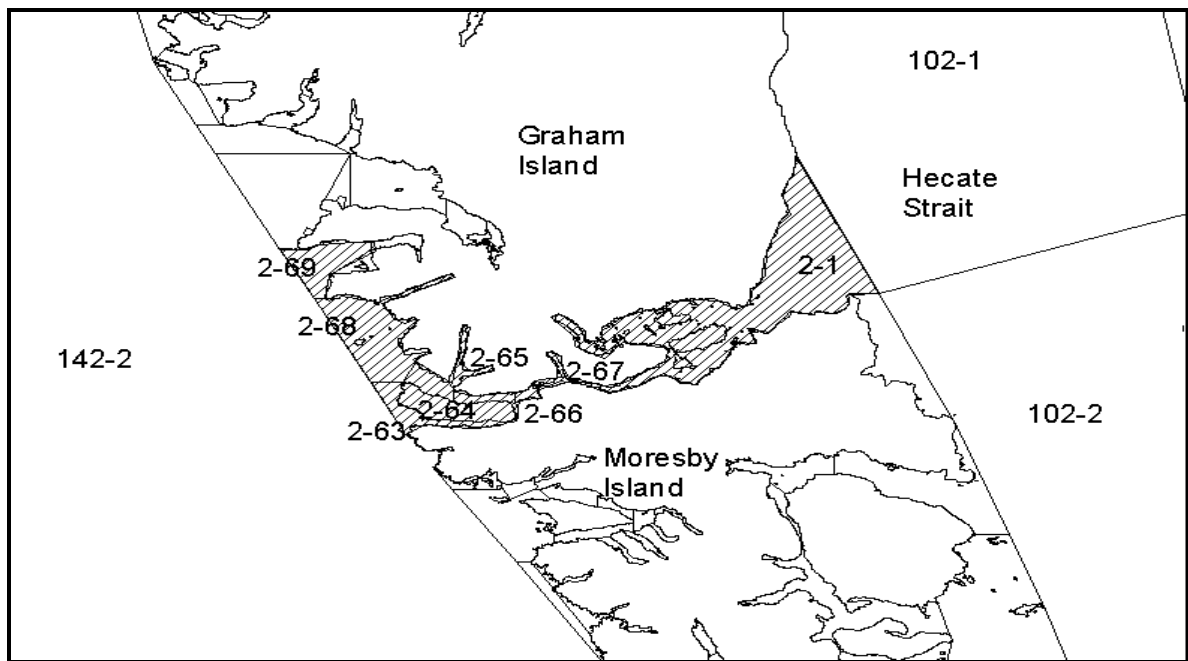
Those waters of Subareas 2-19, 102-3, 130-3 and 142-1 inside a line:		
commencing at	51°56.509 N	131°01.547 W
then southwest to	51°55.499 N	131°02.468 W
then southeast to	51°52.493 N	130°57.907 W
then south to	51°51.655 N	130°57.780 W
then southeast to	51°50.395 N	130°56.561 W
then northeast to	51°51.054 N	130°54.702 W
then north to	51°53.826 N	130°55.640 W
then northwest to	51°58.517 N	130°59.468 W
then west to	51°58.727 N	131°00.620 W
and then following the southern shore of Kungit Island to the point of commencement.		

### 7.2.6. SGang Gwaay

Those waters of Subareas 2-31 and 142-1 inside a 3 km radius from the centre point on Anthony Island located at:	52°05.655 N	131°13.178 W
--	-------------	--------------

### 7.3. Haida Gwaii

Closed to all trawling (includes both bottom and midwater) year-round in Subareas 2-1, 2-63 to 2-68 and those portions of Subarea 2-69 commencing at Fame Point in position 53 deg 17.060 min N 132 deg 42.415 min W then to 53 deg 17.060 min N 132 deg 43.800 min W then to 53 deg 16.350 min N 132 deg 44.700 min W then to 53 deg 15.208 min N 132 deg 43.597 min (abuts the boundary of 2-68) then to Hunter Point 53 deg 15.208 min N 132 deg 42 .984 min W. The intent of the closure is to reduce harvesting pressure on localized stocks of fish and to provide improved access to food, social and ceremonial fish for the Haida First Nations.



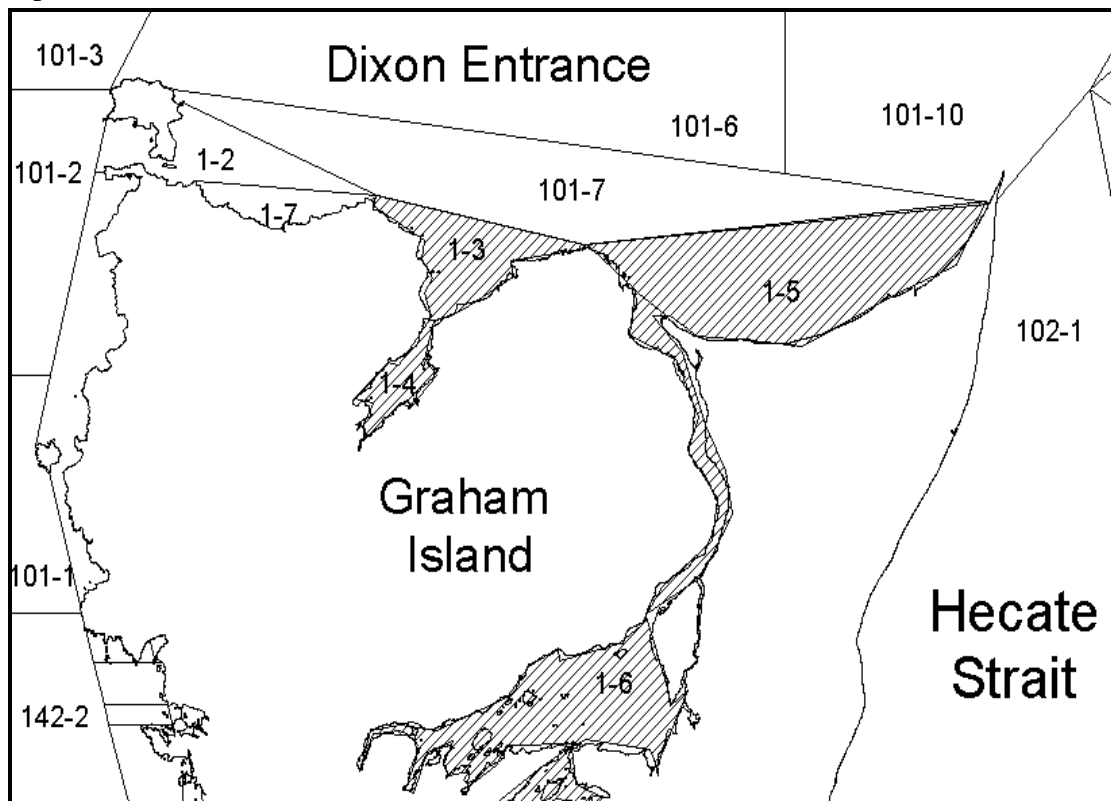
### 7.4. Glass Sponge Reef Closures

The coastwide bottom trawl closures set out in Section 6 included the existing three glass sponge reef closed areas located in waters of the Eastern Queen Charlotte Sound and Hecate Strait.

These unique sponge reef areas have been identified for designation as a Marine Protected Area (MPA) in 2014. In the interim, Fisheries and Oceans Canada will continue to monitor fishing activity, in particular mid-water trawling, over the reefs and in adjacent areas. Should it be determined that current activities are create additional concerns for the overall protection of the reefs additional management measures may be implemented inseason.

### 7.5. McIntyre Bay/Masset

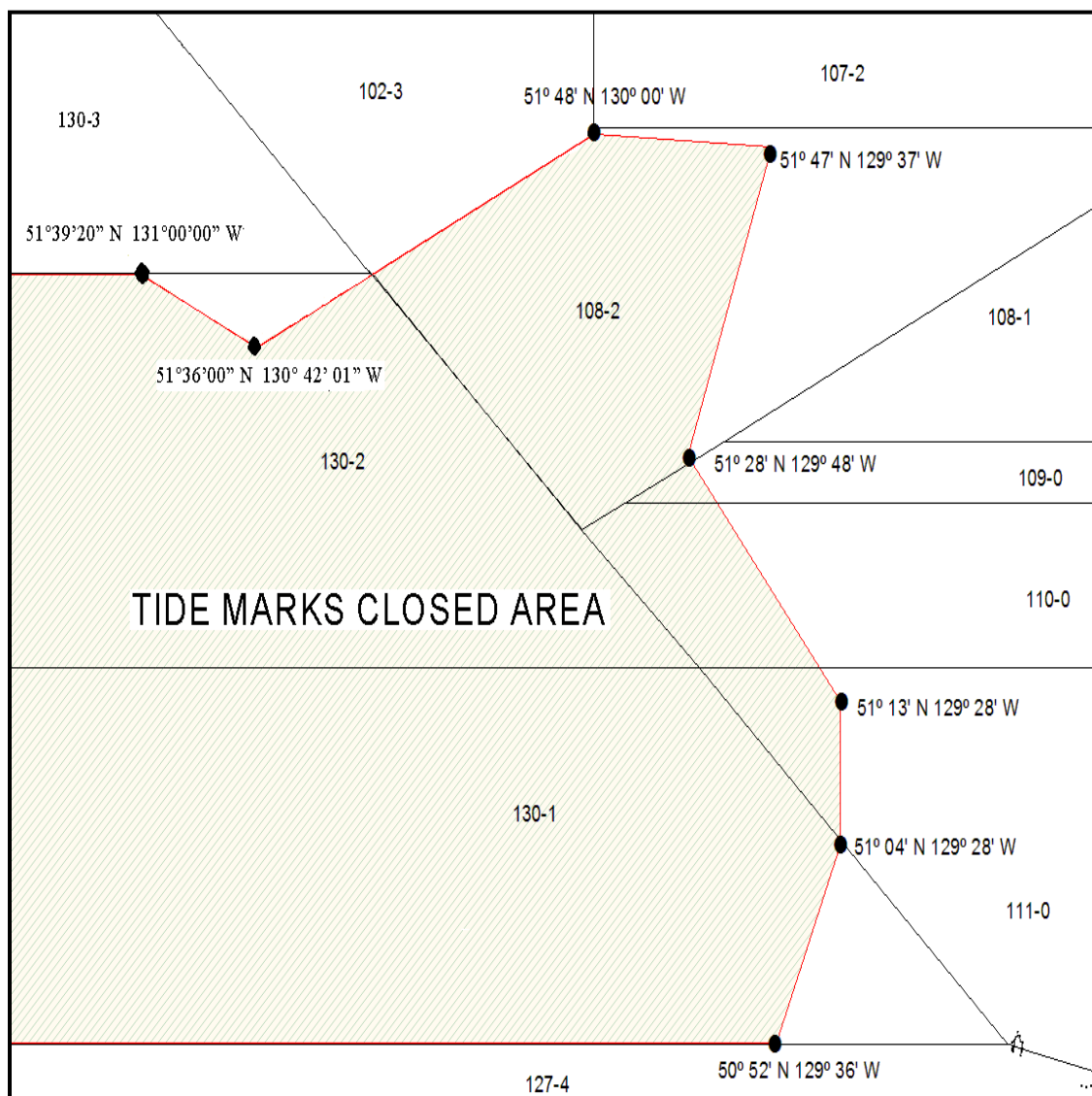
Closed to all trawling (includes both bottom and midwater) year-round in Subareas 1-3, 1-4, 1-5 and 1-6. The intent of this closure is to reduce harvesting pressure on localized stocks of fish, minimize the catch of juvenile halibut, and to provide improved access to food, social, and ceremonial fisheries for First Nations.



### 7.6. Tide Marks

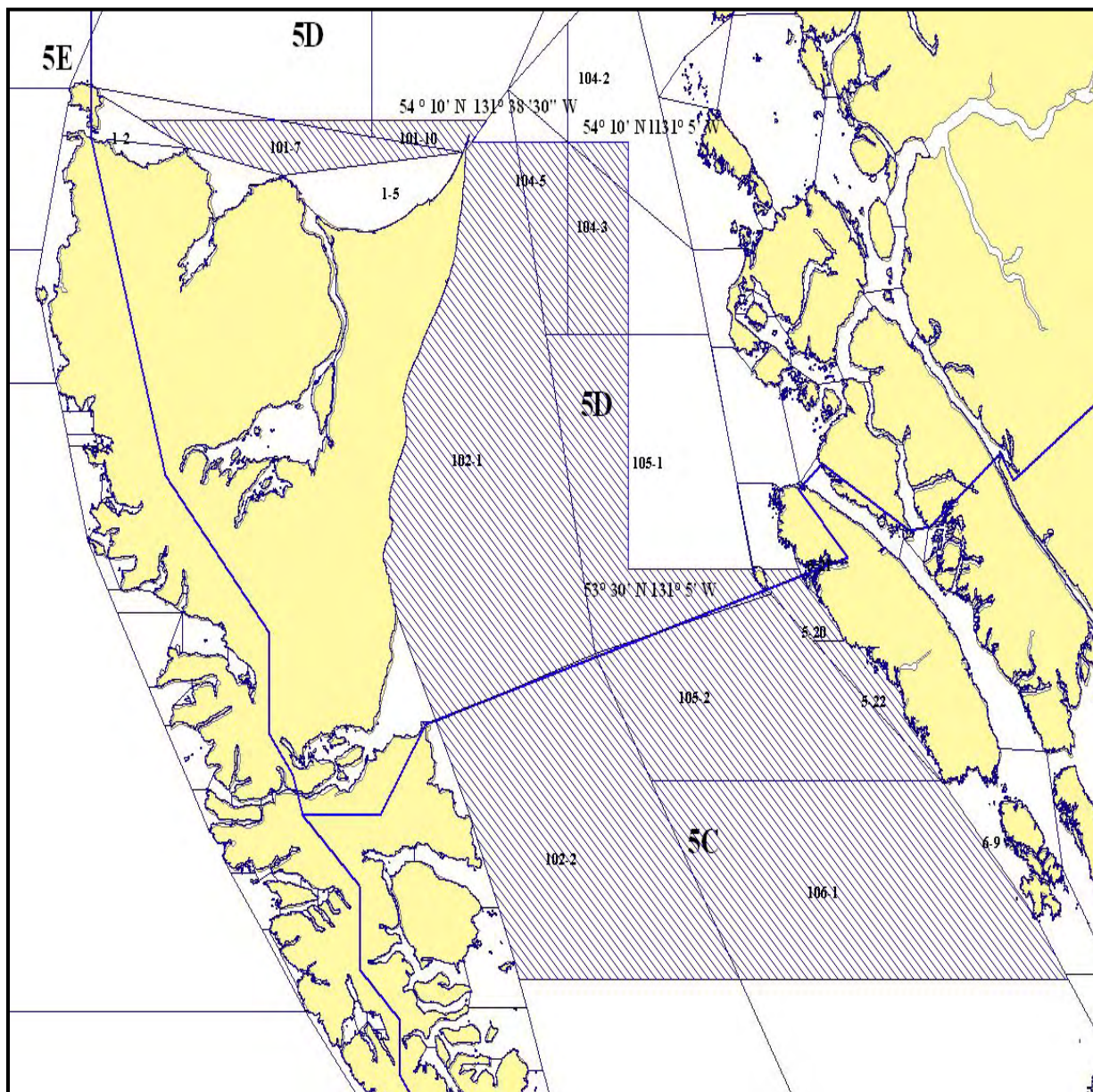
Closed to all trawling (includes both bottom and midwater) from February 21, 2014 to May 31, 2014 and from October 1, 2014 to March 31, 2015 in those portions of Areas 109 to 111 and Subareas 130-2, 108-2 and 130-1 found within a line that begins at the intersection of the outer perimeter of Fishing Zone 5 and 51 deg 39.33 min N. lat. then following the northern boundary of Subarea 130-2 to 51 deg 39.33 min N. lat. 131 deg 00 min W. long. then to 51 deg 36.00 min N. lat. 130 deg 42.02 min W. long. then to 51 deg 48 min N. lat. 130 deg 00 min W. long. then to 51 deg 47 min N. lat. 129 deg 37 min W. long. then to 51 deg 28 min N. lat. 129 deg 48 min W. long. then to 51 deg 13 min N. lat. 129 deg 28 min W. long. then true south to 51 deg 04 min N. lat. 129 deg 28 min W. long. then to 50 deg 52 min N. lat. 129 deg 36 min W. then southern boundary of 130-1 to the outer perimeter of Fishing Zone 5 and back to the point of commencement. The intent of this closure is to reduce harvesting pressure on Pacific Ocean Perch stocks during the spawning period.





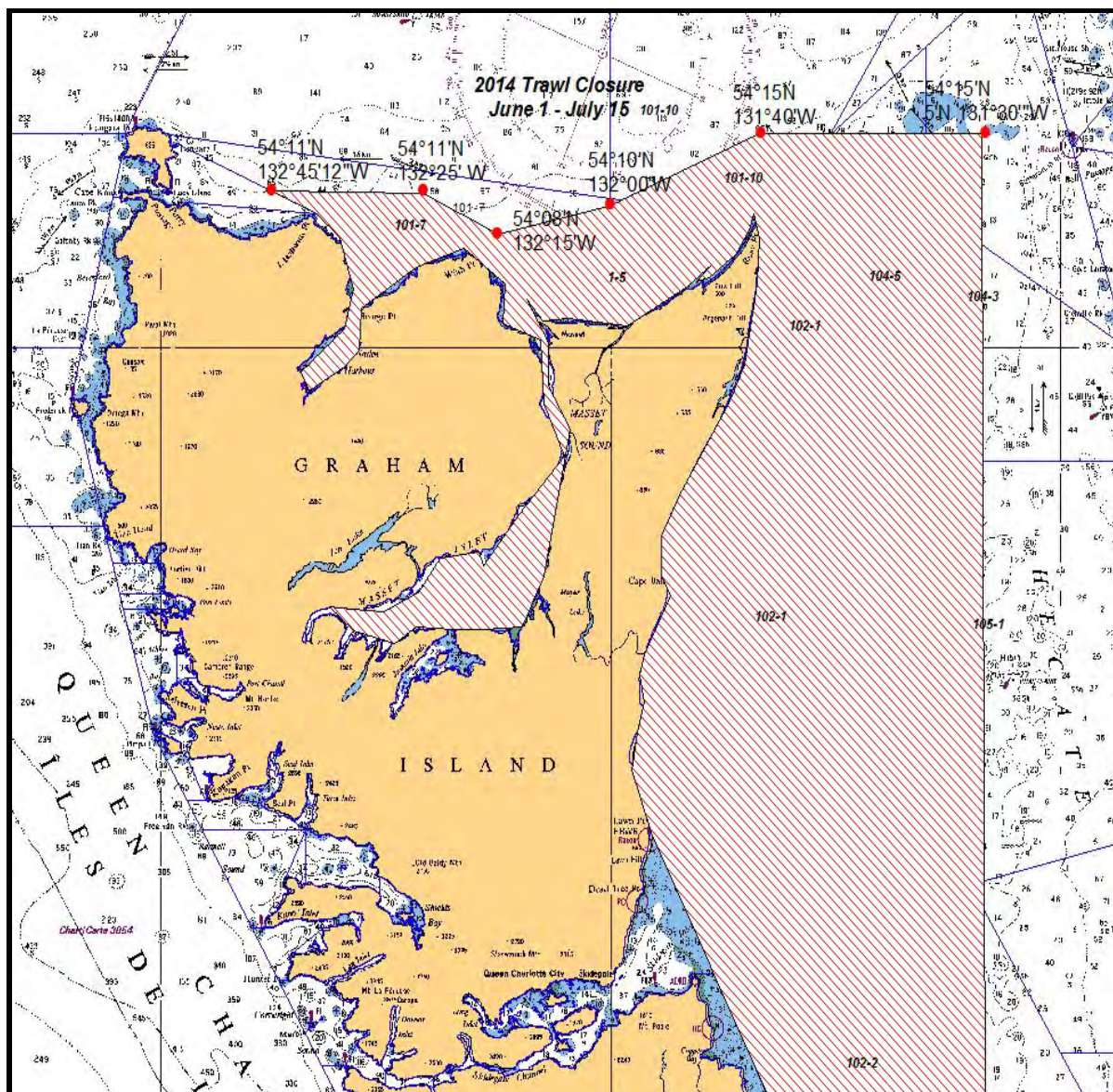
### 7.7. Hecate Strait/Dixon Entrance - Protection of Pacific Cod

Closed to all trawling (includes both bottom and midwater) from January 1, 2014 to April 30, 2014 and from January 1, 2015 through April 30, 2015 in those portions of area 101, south of 54° 12' N latitude and in those waters of areas 102, 104, 105 and subarea 5-20 found south and westerly of a line commencing at 54° 10' N latitude 131° 38' 30" W longitude thence to 54° 10' N latitude 131° 5' W longitude south thence to 53° 30' N latitude 131° 5' W longitude thence to 53° 30' N latitude 130° 28' 20" W longitude thence following the eastern boundary of 5-20, 5-22 and 106-1 to 52° 51' N latitude 129° 30' 37" W longitude thence westerly to 52° 51' N latitude 131° 41' W longitude thence northerly along the western boundary of subareas 102-2, 102-1 to the point of commencement (revised Jan 27, 2012). This closure is to protect the spawning biomass of Pacific Cod found in Hecate Strait and Dixon Entrance.



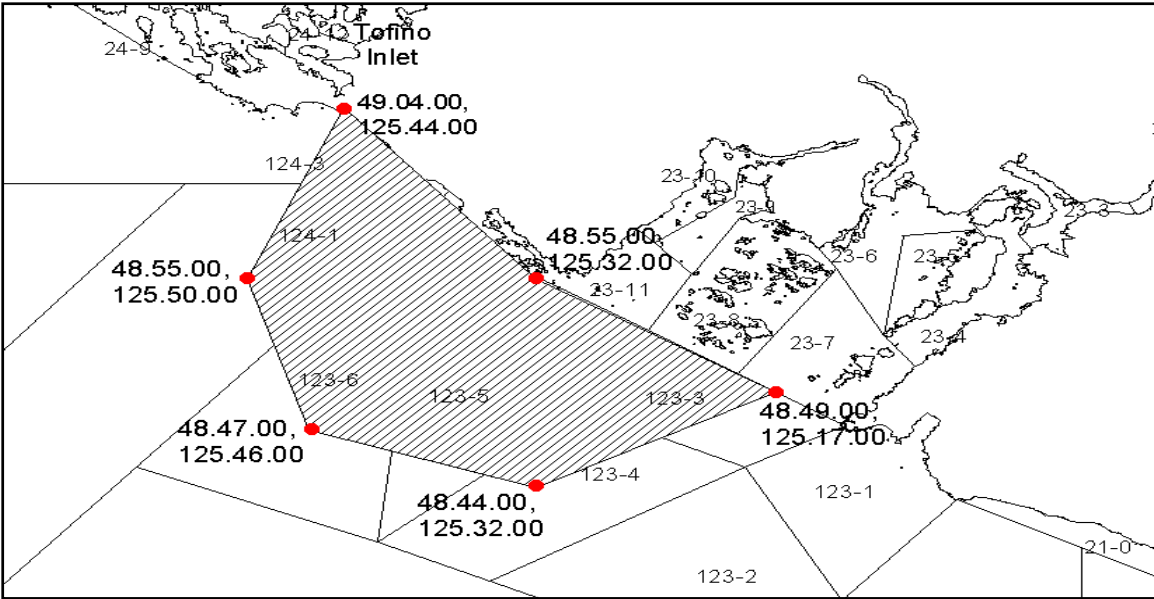
### 7.8. Lower West Hecate Strait/Dixon Entrance - Protection of Soft Shell Crabs

Closed to bottom trawling from June 1, 2014 through July 15, 2014 in Subareas 2-1, 2-2, 2-3, 102-1 and 104-5; that portion of Subarea 101-7, 101-10 and 104-2 south of line commencing at 54°11'N 132°45'12"W thence to 54°11'N 132°25'W thence to 54°08'N 132°15'W thence to 54°10'N 132°00'W thence to 54°15'N 131°40'W thence to 54°15'N 131°10'W; that portion of Subarea 104-2, that is both south of 54°15'N, and west of 131°10'W; that portion of Subarea 104-3, that is west of 131°10'W; that portion of Subarea 105-1, that is west of 131°10'W; that portion of Subarea 105-2, west of 131°10'W and that portion of Subarea 102-2, that is both north of 53°00'N, and west of 131°10'W. The intent of this closure is to protect crabs during the soft-shell period.



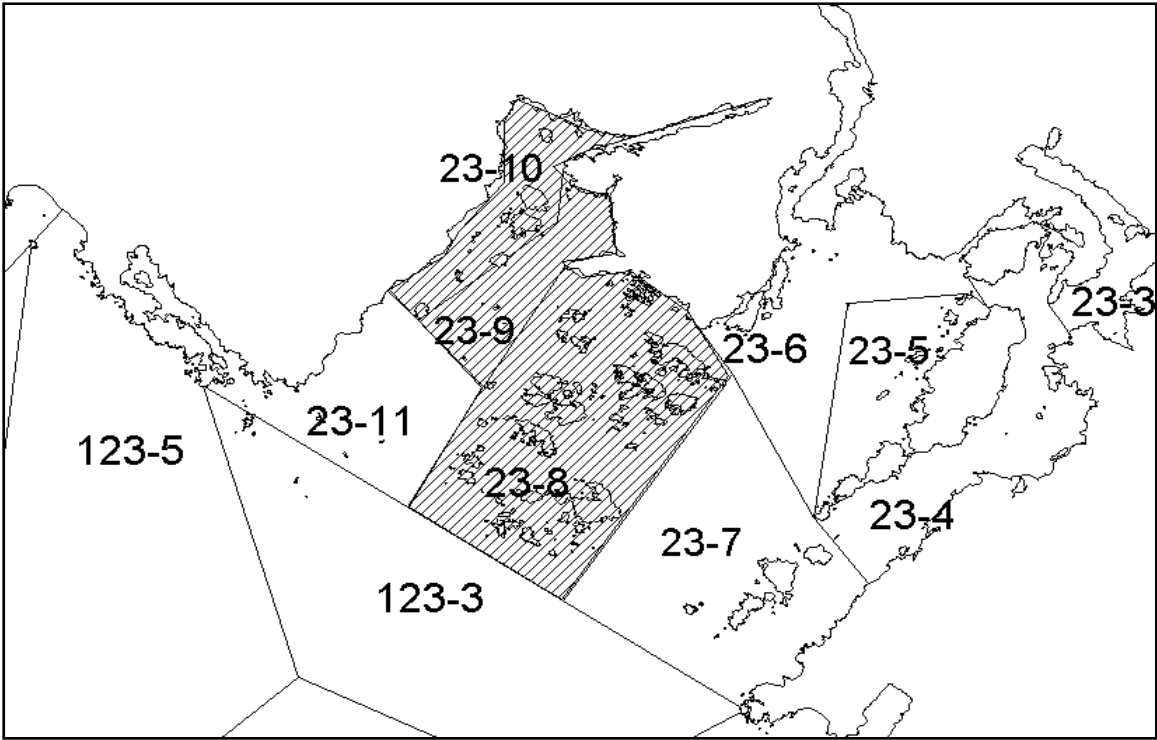
### 7.9. Lower West Coast Vancouver Island - Protection of Pacific Cod

Closed to all trawling (includes both bottom and midwater) from January 1, 2014 through to March 31, 2014 and from January 1, 2015 to March 31, 2015 in those portions of Subareas 123-3, 123-4, 123-5, 123-6, 124-1 and 124-3 that are found within the area bounded by a line that begins on the Vancouver Island shore near Amphitrite Point lighthouse at 48°55'N latitude 125°32'W longitude; then westerly to 49°04'N latitude 125°44'W longitude; then southerly to 48°55'N latitude 125°50'W longitude; then southerly to 48°47'N latitude 125°46'W longitude; then easterly to 48°44'N latitude 125°32'W longitude; then easterly to 48°49'N latitude 125°17'W longitude; then northerly along the surf line to the point of commencement. The intent of this closure is to reduce the harvesting of Pacific Cod during the spawning period.



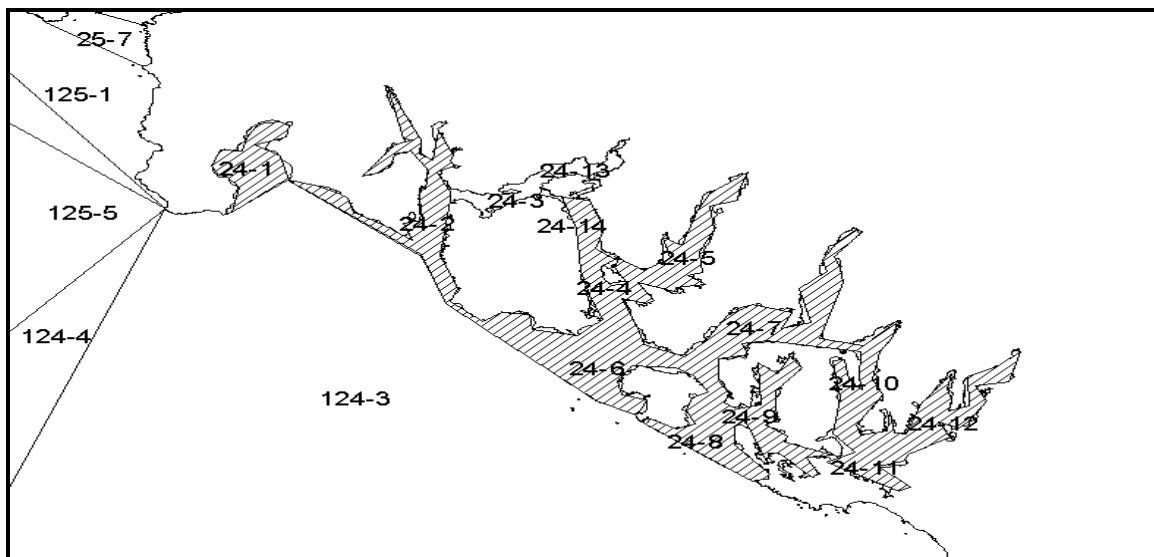
**7.10. Area 23 (Barkley Sound)**

Closed to all trawling (includes both bottom and midwater) from February 25, 2014 through March 25, 2014 in Subareas 23-8 to 23-10. The intent of this closure is to reduce gear conflicts during the roe herring season.



### 7.11. Area 24 (Clayoquot Sound)

Closed year-round to all trawling (includes both bottom and midwater) in Subareas 24-1, 24-2, 24-4 to 24-12 and 24-14. The intent of this closure is to address shellfish interception and shallow water habitat concerns.



## 8. IN-SEASON GROUND FISH TRAWL CLOSURES - INSIDE WATERS

There are a number of Subareas within the Johnstone, Georgia and Juan de Fuca Straits that are closed to both bottom and mid-water trawling. The closures have been implemented for reasons that include: herring spawn areas, salmon/herring holding areas, conflicts with crab gear, harbour congestion and reduction of harvesting pressure on localized groundfish stocks. A full description of Areas and Subareas referenced on these figures can be found in *the Pacific Fishery Management Area Regulations*.

The closures described on the following pages may change in-season. Current Fisheries Public Notices should be referred to prior to fishing.

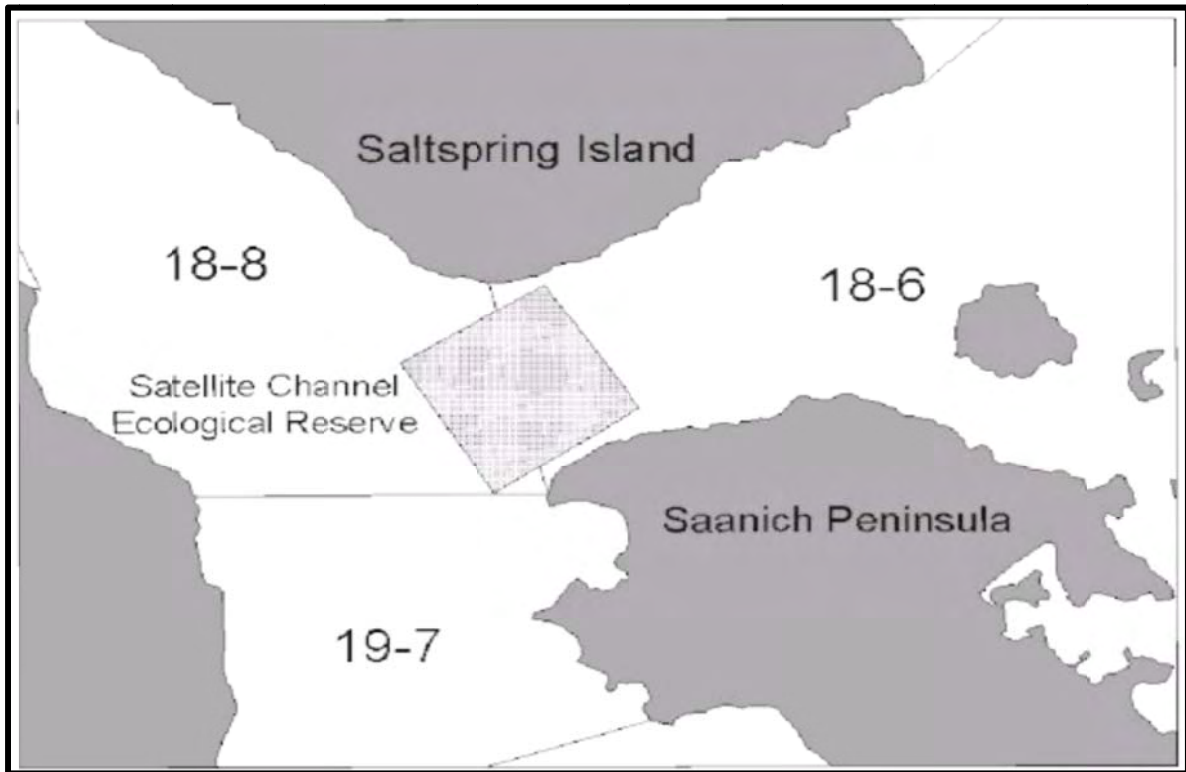
### 8.1. Rockfish Conservation Areas

Currently there are 164 Rockfish Conservation Areas (RCAs) in effect and are outlined in the Protecting British Columbia's Rockfish booklet. These booklets are available at any PFLU or can be downloaded from the Department's internet site at:

<http://www.pac.dfo-mpo.gc.ca/fm-gp/rec/species-especes/conservation-eng.htm>

### 8.2. Satellite Channel

Closed year round to all trawling (includes both bottom and midwater) in that portion of Subarea 18-6 inside a line: that begins at 48 deg 41.46 min N. lat. 123 deg 29.48 min W. long. then to 48 deg 41.96 min N. lat. 123 deg 28.18 min W. long. then to 48 deg 42.82 min N. lat. 123 deg 28.92 min W. long. then to 48 deg 42.32 min N. lat. 123 deg 30.23 min W. long. then to the beginning point. (B.C. Provincial Ecological Reserve Number 67.)



### 8.3. Gulf - Bottom Trawl Closures by Subarea

Subarea(s)	Closure Description	Period Closed
12-6	Those portions of Subarea 12-6 inside a line commencing at Red Point on the north-western shore of Harbledown Island, thence north-westerly to 50°38'N and 126°45'W, thence true east to 50°38' N and 126°35'W, thence true south to Dead Point on the northern shore of Harbledown Island, thence westerly along the north shore of Harbledown Island to the point of commencement at Red Point on Harbledown Island.	All year
12-20	Entire Subarea	All year
12-29, 12-34	Entire Subareas	February 16 to April 30
12-39	Those portions of Subarea 12-39 inside a line commencing at Slope Point on the southern shore of Gilford Island, thence north-westerly in a straight line to the navigational light on Duff Islet in lower Fife Sound, thence north-easterly in a straight line to Powell Point on Gilford Island, thence southerly along the western shore of Gilford Island to the point of commencement at Slope Point.	All year
12-42	Entire Subarea	All year
12-46	Entire Subarea	February 16 to April 30
13-1 to 13-17	Entire Subareas	All year
13-33,13-34	Entire Subareas	All year

<b>Subarea(s)</b>	<b>Closure Description</b>	<b>Period Closed</b>
14-1,14-8	Entire Subareas	All year
14-11,14-14,14-15	Entire Subareas	All year
14-2 to 14-7	Entire Subareas	April 1 to September30
14-9,14-10,14-12	Entire Subareas	April 1 to September30
16-3,16-4	Entire Subareas	All year
17-1,17-3,17-7	Entire Subareas	All year
17-9,17-14,17-17	Entire Subareas	All year
17-20,17-21	Entire Subareas	All year
18-2	Entire Subareas	All year
18-7, 18-8, 18-9	Entire Subareas	All year
19-1,19-2	Entire Subareas	All year
19-6 to 19-12	Entire Subareas	All year
20-6,20-7	Entire Subareas	All year
28-1 to 28-14	Entire Subareas	All year
29-3,29-4,29-6	Shoreward of 100 m contour line as shown on CHS charts # 3463 and # 3512.	All year
29-7 to 29-17	Entire Subareas	All year

#### 8.4. Gulf - Mid-water Trawl Closures by Subarea

<b>Subarea(s)</b>	<b>Closure Description</b>	<b>Period Closed</b>
12-20	Entire Subarea	All year
12-29,12-34,12-46	Entire Subareas	February 16 to April 30
13-1 to 13-17	Entire Subareas	All year
13-33,13-34	Entire Subareas	All year
14-1,14-8	Entire Subareas	All year
14-11,14-14,14-15	Entire Subareas	All year
16-3,16-4	Entire Subareas	All year
17-1,17-7,17-9	Entire Subareas	All year
17-14,17-20,17-21	Entire Subareas	All year
18-7, 18-8	Entire Subareas	All year
18-10	Entire Subareas	All year
19-1,19-2	Entire Subareas	All year
19-6 to 19-12	Entire Subareas	All year
20-6,20-7	Entire Subareas	All year
28-1 to 28-14	Entire Subareas	All year
29-7 to 29-17	Entire Subareas	All year

## 8.5. Strait of Georgia Sponge Reef Voluntary Avoidance Measures

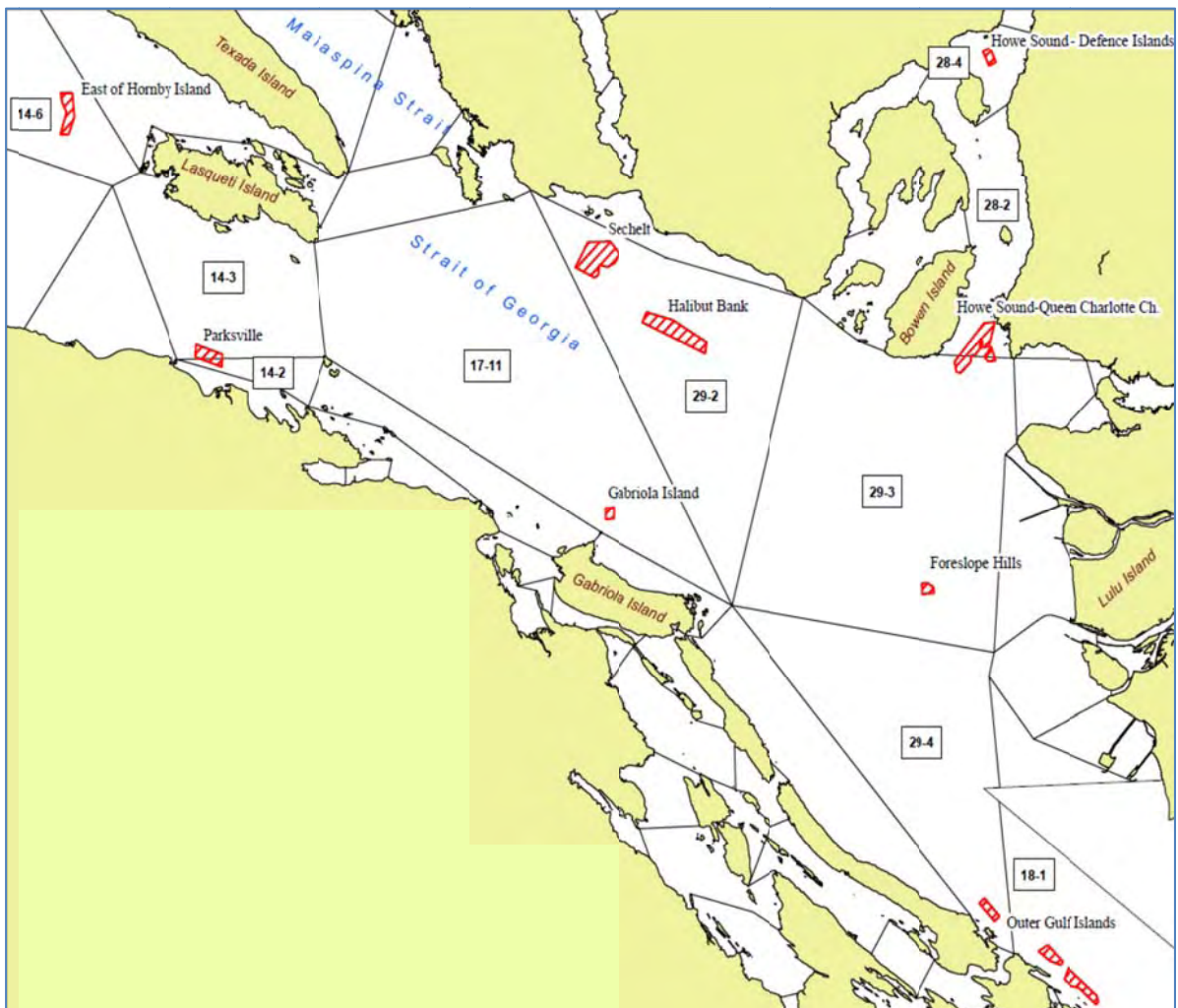
DFO continues to move forward in the formal protection of the identified glass sponges reefs found with the Strait of Georgia. Currently, formal closure of bottom contact fishing activities on these reefs is under consideration for possible inseason implementation. In the interim and in support of the shared objective for providing formal protection of the glass sponge reefs, the Department is requesting that all harvesters using bottom contact fishing gear voluntarily avoid known glass sponge reefs identified in the Strait of Georgia. DFO has embarked in an ecological risk assessment process whereby anticipated protection measures will be developed in partnership with First Nations, commercial and recreational industries and other stakeholders during the 2014 season. Coordinates for the voluntary avoidance reef areas and illustration of location of the known Strait of Georgia Glass Sponge Reefs follow:

REEF LOCATION	Coordinates of voluntary closures bounded by rhumb lines as follows:
Strait of Georgia – Foreslope Hills	From 49°9.67'N 123°23.541'W then to 49°9.67'N 123°23.09'W then to 49°9.44'N 123°22.62'W then to 49°9.18'N 123°22.62'W then to 49°9.18'N 123°23.54'W then to the beginning point.
Strait of Georgia – Outer Gulf Islands	<p>North to south – 3 polygons</p> <p>(1) From 48°55.04'N 123°19.56'W then to 48°54.19'N 123°18.46'W then to 48°53.97'N 123°18.86'W then to 48°54.82'N 123°19.97'W then to the beginning point.</p> <p>(2) From 48°52.76'N 123°14.83'W then to 48°51.96'N 123°13.74'W then to 48°51.82'N 123°13.93'W then to 48°52.03'N 123°14.72'W then to 48°52.50'N 123°15.57'W then to the beginning point.</p> <p>(3) From 48°51.67'N 123°13.31'W then to 48°50.33'N 123°11.11'W then to 48°50.04'N 123°11.00'W then to 48°49.94'N 123°11.21'W then to 48°50.73'N 123°12.47'W then to 48°50.84'N 123°13.11'W then to 48°51.14'N 123°13.68'W then to the beginning point.</p>
Halibut Bank	From 49°22.63'N 123°44.39'W then to 49°22.21'N 123°42.40'W then to 49°22.12'N 123°39.85'W then to 49°20.60'N 123°39.99'W then to 49°22.15'N 123°44.77'W then to the beginning point.
Sechelt	From 49°25.95'N 123°48.92'W then to 49°25.95'N 123°47.19'W then to 49°25.37'N 123°46.49'W then to 49°24.96'N 123°46.88'W then to 49°24.78'N 123°47.44'W then to 49°24.88'N 123°48.08'W then to 49°24.43'N 123°48.19'W then to 49°24.31'N 123°48.47'W then to 49°24.81'N 123°49.95'W then to the beginning point.
East of Hornby Island	From 49°33.52'N 124°29.97'W then to 49°33.52'N 124°29.08'W then to 49°32.43'N 124°28.94'W then to 49°31.63'N 124°29.39'W then to 49°31.63'N 124°30.06'W then to 49°32.63'N 124°29.54'W then to 49°33.10'N 124°29.87'W then to the beginning point.
Howe Sound – Queen Charlotte Ch.	<p>West to east – 2 polygons</p> <p>(1) From 49°21.52'N 123°18.07'W then to 49°21.55'N 123°17.24'W then to 49°20.42'N 123°17.74'W then to 49°20.36'N 123°18.42'W then to 49°20.05'N 123°18.86'W then to 49°20.05'N 123°19.13'W then to 49°19.71'N 123°19.23'W then to 49°19.26'N 123°20.01'W then to 49°19.30'N</p>



(2)	123°20.34'W then to 49°19.78'N 123°20.46'W then to the beginning point. From 49°20.40'N 123°17.58'W then to 49°19.75'N 123°17.28'W then to 49°19.73'N 123°17.84'W then to 49°19.93'N 123°18.13'W then to the beginning point.
Gabriola Island	From 49°13.66'N 123°48.12'W then to 49°13.68'N 123°47.48'W then to 49°13.18'N 123°47.52'W then to 49°13.16'N 123°48.16'W then to the beginning point.
Howe Sound – Defence Islands	From 49°34.02'N 123°17.44'W then to 49°34.18'N 123°16.86'W then to 49°33.52'N 123°16.43'W then to 49°33.37'N 123°17.00'W then to the beginning point.
Parksville	From 49°21.76'N 124°19.75'W then to 49°21.28'N 124°17.71'W then to 49°20.70'N 124°17.79'W then to 49°21.19'N 124°19.83'W then to the beginning point.

**Strait of Georgia Glass Sponge Reef Locations:**



## 9. GEAR

Subject to the licence option selected, species closures, area closures and IVQ holdings, a vessel holding a valid groundfish trawl licence may fish with either bottom and/or mid-water trawl gear.

### 9.1. Mesh Size

“Mesh size” means the total length of twine measured along two contiguous sides of a single mesh, including the distance across the knot joining those sides but not including any other knots. Where a minimum mesh size is prescribed, no person shall use any device by means of which openings that are smaller in size than the original mesh are created. Mesh size shall be measured when the net is wet.

### 9.2. Mesh Measuring Procedure

The average measurement, in millimetres, of any 20 consecutive meshes running parallel to the long axis of the codend, beginning at the after end of the codend, and at least 10 meshes from the lacings; made by inserting into the meshes a flat wedge shaped gauge having a taper of 2 cm in 8 cm and a thickness of 2.3 mm with a weight of 5 kg attached. The gauge shall be inserted into the mesh opening using a weight until the mesh gauge is stopped by the resistance of the mesh at the tapering edges. In any other part of the trawl 20 consecutive meshes at least 10 meshes from the lacings.

The meshes to be measured need not be consecutive if this is prevented by the application ropes and codlines. Any mesh that has been mended or torn or to which attachments to the net are fixed shall not be measured.

### 9.3. Gear Restrictions

#### 9.3.1. Trawl Net Size

Subject to Sections 9.3.1.1 and 9.3.1.2 and 9.3.1.3, the coast-wide mesh size in any part of a bottom trawl or mid-water trawl net, including the cod-end, shall not be less than 76 mm (approximately three inches).

9.3.1.1. In Areas 13 to 19 and 29: the mesh size in a bottom trawl net shall not be less than 108 mm (approximately 4.25 inches) in the final 50 meshes, including the cod-end. In all other parts of a bottom trawl net, the mesh size shall not be less than 76 mm (approximately three inches).

9.3.1.2. In Hecate Strait and Eastern Dixon Entrance: the mesh size in a bottom trawl net shall not be less than 140 mm (approximately 5.5 inches) in the last 100 meshes of the net, including the cod-end. In all other parts of a bottom trawl net, the mesh size shall not be less than 76 mm (approximately three inches). This restriction applies to that area bounded on the south by 52°51'N in Hecate Strait, bounded on the north by the Canada/United States International boundary, bounded on the west by 132°00'W in Dixon Entrance, and bounded on the east by the mainland of British Columbia.

New for 2014/2015 season - The groundfish trawl industry has requested all trawl vessels operating within the Hecate Strait/Dixon Entrance areas to voluntarily restrict themselves to a mesh size in a bottom trawl net that is not be less than 152.4 mm (6

inches) in the last 100 meshes of the net, including the cod-end. This action is to reduce the catch, handling and subsequent mortality of smaller fish in the area.

9.3.1.3. In Queen Charlotte Sound: the mesh size in a bottom trawl shall not be less than 140 mm (approximately 5.5 inches) mesh size restriction in the last 100 meshes of the net, including the cod-end. For all other parts of a bottom trawl net, the mesh size shall not be less than 76 mm (approximately three inches). This mesh size restriction applies to vessels fishing in waters shallower than 60 fathoms in the area bounded by the southern boundary of 130-1 and the 52°51'N (Hecate Strait) in the north. The intent of this action is to reduce bycatch of small fish.

#### 9.3.2. Trawl Net Escape Panel

9.3.2.1. All bottom trawl nets and mid-water trawl nets, when used in fishing for pacific hake destined for delivery to a foreign fishing vessel licensed under the *Coastal Fisheries Protection Regulations*, shall have an escape panel fitted to permit the release of unwanted fish. This panel shall be located in the intermediate portion (lengthening piece) of the trawl net commencing at a point six feet from where the intermediate (lengthening piece) is attached to the cod-end. The panel shall be composed of not less than one row of meshes running parallel to the long axis of the intermediate for a distance of not less than six feet. The row(s) of mesh shall be cut and sewn with a length of twine or similar material having a breaking strength not exceeding 70 pounds.

### 9.4. Cod-end Protection Device

For the purpose of preventing wear and tear to a trawl net, there may be attached to the underside of the cod-end any hides, canvas, netting or similar material. For the purpose of preventing wear and tear to a trawl net, there may be attached to the topside of the cod-end, one of the following topside chafers.

#### 9.4.1. Regular Topside Chaffer

A rectangular piece of netting that: is at least one and half times the width of the area of the cod-end that is covered, where the width is measured at right angles to the long axis of the cod-end; has a mesh size that is not less than the mesh size of the cod-end and; is fastened to the cod-end only along the forward and lateral edges of the netting in a manner that will permit it to extend where a splitting strap is used, over not more of the cod-end than that part between the fourth mesh forward of the cod line mesh and the fourth mesh forward of the splitting strap, and where a splitting strap is not used, over not more than one third of the cod-end, measured from not less than the fourth mesh forward of the cod line mesh.

#### 9.4.2. Modified Polish Topside Chaffer

A rectangular piece of netting that: is made of twine of the same material and size as that of the cod-end, or of any single, thick, knotless twine material; has a mesh size that is twice as large as the mesh size of the cod-end; is attached to the rear portion of the topside of the cod-end; and is fastened to the cod-end along the forward, lateral and rear edges of the netting in a manner that will cause each mesh to exactly overlie four meshes of the cod-end over which it extends.

#### 9.4.3. Multiple Flap-Type Topside Chafer

A series of pieces of netting where the aggregate length extends less than two-thirds of the length of the cod-end; and each piece of netting is attached to the topside of the cod-end so that it overlaps the piece of netting immediately to its rear, if any, has a mesh size that is not less than the mesh size of the cod-end, is at least as wide as the cod-end, where the width is measured at right angles to the cod-end, is not more than 10 meshes long, and is fastened by its forward edge only across the cod-end at right angles to its long axis.

The above description of mesh size and gear restrictions are provided for reference purposes only. Groundfish trawl vessel owners, captains and crews must carefully read their 2014/2015 groundfish trawl licence and the attached conditions of licence and, regulations (*Fishery [General] Regulations* and *Pacific Fishery Regulations, 1993*) to ensure a full understanding of all gear restrictions in effect.

## 10. LICENSING

### 10.1. Licence Category

A commercial groundfish trawl Category T or a communal commercial groundfish trawl category FT licence eligibility is required to commercially harvest groundfish trawl species using trawl gear. Category T licence eligibilities are limited entry and vessel based. Category FT licence eligibilities are limited entry and party based; an Aboriginal group is the licence eligibility holder and the eligibility must be designated to a commercially registered fishing vessel that meets established length restrictions.

Vessels authorised to fish under the authority of a groundfish trawl licence are also permitted to fish using hook and line gear for species described in Schedule II Part 2 of the Pacific Fishery Regulations 1993, transport fish caught by other vessels and be designated to fish under the authority of a category Z licence.

Groundfish trawl vessel owners and fishers are reminded to carefully review and familiarize themselves with the groundfish trawl licence and attached conditions.

### 10.2. Application Fees

The commercial groundfish trawl licence fee is based on the combination of a base licence fee of \$500.00 and the Permanent IVQ holdings of the licence on February 20th, 2014 measured in pounds

IVQ Species	Fee Per Tonne of IVQ	Fee Per Pound of IVQ
All Rockfish Species	\$15.00	\$.0068
All Sole Species	\$16.00	\$.0073
Lingcod	\$16.00	\$.0073
Pollock	\$7.50	\$.0034
Hake	\$4.00	\$.0018

There is no annual licence fee for communal commercial category FT license.

### 10.3. Licence Application and Issuance

Category T licence eligibilities must be applied for and issued annually regardless of whether fishing will take place or not. This application must be submitted by February 20th, of the next calendar year.

**To avoid delays, please ensure the payment through the online system and option information is submitted to DFO at the same time.**

The vessel owner/licence eligibility holder must sign the applicable form. If the vessel owner/licence eligibility holder is a company, the PFLU must have on record a copy of a BC Company Summary and/or a Confirmation of Signing Authorities listing the signing authorities. Parties authorized to request amendments must be identified on the application.

Prior to annual licence issuance, vessel owners/licence eligibility holders are required to:

- a) Meet any Ministerial conditions placed on the licence eligibility.
- b) Ensure all conditions of the previous year's licence have been met.
- c) Indicate on the application which fishing Option you intend to harvest under the authority of the Groundfish Trawl licence eligibility in 2014.

#### 10.3.1. Groundfish Trawl Licence Option Selection

Prior to Licence issue, each groundfish trawl vessel owner/licence eligibility holder is required to choose a fishing option for the current fishing year. The options are:

##### 10.3.1.1. Option A

- i) Permitted to fish with bottom trawl gear in all areas, except management Area 4B (Fisheries Management Areas 12 to 20 and 29).
- ii) Permitted to fish by mid-water trawl coast-wide.
- iii) Subject to one hundred (100) percent dockside monitoring for all landings.
- iv) Subject to one hundred (100) percent at sea observer coverage when fishing with bottom or mid-water gear except when mid-water trawling for hake and delivering all fish caught as fresh round product to land.
- v) Subject to one hundred (100) percent at sea monitoring coverage when fishing when mid-water trawling for hake.
- vi) Permitted to fish throughout the year for groundfish species subject to TAC up to the amount of the IVQ specified on the licence.
- vii) Permitted to reallocate IVQ holdings subject to the rules governing such reallocations.
- viii) Limited to 15,000 pound per trip for all combined rockfish species not subject to TAC.
- ix) Permitted to retain incidentally caught mackerel equal to six (6) percent of the offshore pacific hake IVQ portion of quota holdings.
- x) No trip limit for groundfish species (excluding rockfish) not subject to a TAC.
- xi) Not permitted to fish for and retain Eulachon, wolf-eels, any salmon species, Pacific Herring, Green Sturgeon, White Sturgeon, Pacific Basking Shark, Tope (Soupfin) Shark or Bluntnose Sixgill Shark.

- xii) Halibut is not permitted to be retained. By-catch mortality caps for halibut will be issued and monitored on an individual vessel basis (exceeding by-catch limit results in restrictions against an individual licence).
- xiii) Corals and Sponges are not permitted to be retained unless specifically authorized by Fisheries and Oceans Canada.
- xiv) A fleet wide habitat bycatch conservation limit (HBCL) for Corals and Sponges has been set and allocated as IVQ to individual groundfish trawl vessels. The HBCL IVQ is transferable among groundfish trawl licence holders within annual caps. These caps will be monitored on an individual vessel basis (exceeding the cap results in restrictions against individual licences).

#### 10.3.1.2. Option B

- i) Required to request monthly amendments to groundfish trawl licence prior to fishing.
- ii) Permitted to fish by bottom trawl in Area 4B (Areas 12 to 20 and 29) only.
- iii) Not permitted to fish by mid-water trawl in any Area.
- iv) Limited to a maximum of 15 landings per calendar month.
- v) Subject to one hundred (100) percent dockside monitoring for all landings.
- vi) Subject to mandatory at-sea monitoring of all fishing activities.
- vii) A 15,000 pound calendar month limit for all groundfish species combined other than dogfish, lingcod and rockfish; of which no more than 200 pounds shall be sablefish, and of which no more than 200 pounds shall be Petrale sole, and of which no more than 500 pounds shall be pacific cod.
- viii) Not permitted to fish for and retain Eulachon, halibut, lingcod, any rockfish, squid, octopus, wolf-eels any salmon species, Pacific Herring, Green Sturgeon, White Sturgeon, Pacific Basking Shark, Tope (Soupfin) Shark or Bluntnose Sixgill Shark,
- ix) No limit on the quantity of dogfish.

#### 10.3.2. In Season Change of Groundfish Trawl Licence Option

Owners of a groundfish trawl licensed vessel choosing Option B are permitted to make a once a year change from Option B to Option A.

Owners of a groundfish trawl licensed vessel choosing Option A may not change their selection for the remainder of the fishing year.

#### 10.3.3. Requirement and Issuance of Valid Licence Amendments

Prior to commencing to harvest under the authority of a groundfish trawl licence, a Request for a 2014/2015 Groundfish Trawl Licence Amendment form must be completed and submitted to the groundfish management unit. The owner of a groundfish trawl licensed vessel or the party authorised to request amendments must complete the amendment request form.

Option B vessels will be issued monthly amendments. The owner of an Option B vessel must submit a 2014/2015 Groundfish Trawl Licence Amendment request form for each month and be in possession of a valid amendment prior to fishing.

Option A vessels must be in possession of a valid amendment to the vessels 2014/2015 groundfish trawl licence prior to fishing.

Contact either of the Groundfish Management Unit Quota officers at (604) 666-0010 or (604) 666-855 for further information.

#### **10.4. Licence Documents**

2014/2015 Groundfish Trawl licence documents are valid from the date of issue until February 20, 2015.

Replacements for lost or destroyed licence documents may be obtained by reprinting the licence documents through the National Online Licensing System.

#### **10.5. Vessel Replacement Rules for Groundfish Trawl**

A groundfish trawl licence eligibility may be placed either permanently or temporarily on any Canadian commercially registered fishing vessel which does not exceed the maximum vessel length (MVL) i.e. the overall length of the vessel that held the licence eligibility as of December 1, 1998 plus 50%. This is subject to departmental policies governing the placement of other vessel based licence eligibilities also held on the vessel being replaced.

An application for a temporary replacement may be made where a vessel has been declared a loss, or the vessel is out of service due to an accident or unforeseen damage. Written confirmation from an insurance company, shipyard or marine engineer explaining why the vessel is inoperative is required. Vessels that are in disrepair at the time of purchase, vessels with engine problems, delays in annual maintenance or rebuilds do not qualify for a temporary transfer.

Where single groundfish trawl licence eligibility is being placed on a shorter vessel, there remains a future opportunity to place the licence eligibility on a commercially registered vessel which does not exceed the MVL i.e. the overall length of the vessel that held the licence eligibility as of December 1, 1998 plus 50%.

A groundfish trawl licence eligibility may be separated from other licence eligibilities and placed on a Canadian commercially registered fishing vessel that does not exceed the MVL. Where the receiving vessel does not already hold a vessel based licence eligibility, the Schedule II privileges associated with the groundfish trawl eligibility must be relinquished.

Groundfish trawl licensed vessel owners are allowed to swap groundfish trawl eligibilities within the groundfish trawl fleet subject to the length guidelines described within this section. Where swapping occurs, the IVQ and holdings caps follow each licence eligibility.

Once a vessel has commenced fishing under the authority of a groundfish trawl licence, that vessel may not fish under the authority of another groundfish trawl licence in the same fishing year.

For further information on vessel replacement policies, please contact a PFLU by telephone at 1-877-535-7307 or email at fishing-peche@dfo-mpo.gc.ca or any of the Groundfish Management Unit (GMU) contacts listed in appendix 1 of the IFMP.

## 11. GROUND FISH SPECIES AND ALLOWABLE CATCHES

### 11.1. Prohibited Species

The following species of vertebrate fish are not allowed to be fished for or retained when fishing under the authority of a groundfish trawl licence.

<i>Common Name</i>	<i>Scientific Name</i>
<i>Pacific Halibut</i>	Hippoglossus stenolepis
<i>Salmon Species</i>	Onchorhynchus sp.
<i>Pacific Herring</i>	Clupea harengus pallasii
<i>Green Sturgeon</i>	Acipenser medirostris
<i>White Sturgeon</i>	Acipenser transmontus
<i>Wolf-Eel</i>	Anarrhichthys ocellatus
<i>Pacific Basking Shark</i>	Cetorhinus maximus
<i>Tope (Soupfin) Shark</i>	Galeorhinus zyopterus
<i>Bluntnose Sixgill Shark</i>	Hexanchus griseus
<i>Eulachon</i>	<i>Thaleichthys pacificus</i> *** new for 2014/2015

### 11.2. Species Permitted to be Fished

<b>Common Name</b>	<b>Scientific Name</b>
Aurora rockfish	Sebastes aurora
Black rockfish	Sebastes melanops
Blue rockfish	Sebastes mystinus
Bocaccio rockfish	Sebastes paucispinis
Brown rockfish	Sebastes auriculatus
Canary rockfish	Sebastes pinniger
Chilipepper rockfish	Sebastes goodie
China rockfish	Sebastes nebulosus
Copper rockfish	Sebastes caurinus
Darkblotched rockfish	Sebastes crameri
Dusky rockfish	Sebastes ciliates
Greenstriped rockfish	Sebastes elongates
Harlequin rockfish	Sebastes variegates
Longspine thornyhead	Sebastolobus altivelis
Northern rockfish	Sebastes polyspinis
Pacific Ocean Perch	Sebastes alutus
Puget Sound rockfish	Sebastes emphaeus
Pygmy rockfish	Sebastes wilsoni
Quillback rockfish	Sebastes maliger
Redbanded rockfish	Sebastes babcocki
Redstripe rockfish	Sebastes proriger
Rosethorn rockfish	Sebastes helvomaculatus
Rougheyeye rockfish	Sebastes aleutianus



Sharpchin rockfish	<i>Sebastes zacentrus</i>
Shortbelly rockfish	<i>Sebastes jordani</i>
Shortraker rockfish	<i>Sebastes borealis</i>
Shortspine thornyhead	<i>Sebastolobus alascanus</i>
Silvergray rockfish	<i>Sebastes brevispinis</i>
Splitnose rockfish	<i>Sebastes diploproa</i>
Stripetail rockfish	<i>Sebastes saxicola</i>
Tiger rockfish	<i>Sebastes nigrocinctus</i>
Vermilion rockfish	<i>Sebastes miniatus</i>
Widow rockfish	<i>Sebastes entomelas</i>
Yelloweye rockfish	<i>Sebastes ruberrimus</i>
Yellowmouth rockfish	<i>Sebastes reedi</i>
Yellowtail rockfish	<i>Sebastes flavidus</i>
<b>Skate &amp; Sharks</b>	
Big skate	<i>Raja binoculata</i>
Longnose skate	<i>Raja rhina</i>
Black skate	<i>Raja kincaidi</i>
Starry skate	<i>Raja stellulata</i>
Deepsea skate	<i>Raja abyssicola</i>
Spiny Dogfish	<i>Squalus suckleyi</i>
<b>Flatfish</b>	
Arrowtooth flounder	<i>Atheresthes stomias</i>
Butter sole	<i>Isopsetta isolepis</i>
C-O sole	<i>Pleuronichthys coenosus</i>
Curlfin sole	<i>Pleuronichthys decurrens</i>
Dover sole	<i>Microstomus pacificus</i>
Lemon/English sole	<i>Parophrys vetulus</i>
Flathead sole	<i>Hippoglossoides elassodon</i>
Pacific sanddab	<i>Citarichthys sordidus</i>
Petrale sole	<i>Eopsetta jordani</i>
Rex sole	<i>Glyptocephalus zachirus</i>
Rock sole	<i>Lepidopsetta bilineata</i>
Sand sole	<i>Psettichthys melanostictus</i>
Slender sole	<i>Lyopsetta exilis</i>
Speckled sanddab	<i>Citharichthys stigmaeus</i>
Starry flounder	<i>Platichthys stellatus</i>
Yellowfin sole	<i>Limanda aspera</i>
<b>Tuna</b>	
Albacore	<i>Thunnus alalunga</i>
Bluefin	<i>Thunnus thynnus</i>
Pacific bonito	<i>Sarda chiliensis lineolata</i>
Skipjack	<i>Euthynnus pelamis</i>
Yellowfin	<i>Thunnus albacares</i>
<b>Smelt</b>	
Surf smelt	<i>Hypomesus pretiosus pretiosus</i>
Rainbow smelt	<i>Osmerus mordax dentex</i>
Night smelt	<i>Spirinchus starksii</i>

<b>Mackerel</b>	
Chub Mackerel	Scomber japonicas
Pacific Mackerel	Trachurus symmetricus
<b>Roundfish</b>	
Greenlings	Hexagrammos sp.
Lingcod	Ophiodon elongates
Pacific cod	Gadus macrocephalus
Sablefish	Anoplopoma fimbria
Sculpins	Family Cottidea
Walleye Pollock	Thragra chalcogramma
Pacific hake	Merluccius productus
<b>Any Other Vertebrate Fish Except those listed in 11.1 above</b>	

### 11.3. Research Allocation

To support groundfish research the Groundfish Trawl Industry has agreed to the following trawl TAC offsets to account for unavoidable mortality incurred in during the 2014 DFO and the Trawl industry agreed upon Groundfish Trawl Multi-species survey planned waters off the for the west coast of Gwaii Hannas. The following quantities have been subtracted from the Groundfish Trawl TAC's set out in section 11.4 below;

Species	Management Area	Research Allocation (mt)
Yellowtail Rockfish	3D, 5A/B, 5C/D/E	0.1
Widow Rockfish	Coast-wide total	0.7
Canary Rockfish	5E	0.2
Silvergrey Rockfish	5E	9.8
Pacific Ocean Perch	5D/E	49.4
Yellowmouth Rockfish	5E	4.0
Rougheye Rockfish	Coast-wide	15.5
Shortraker Rockfish	Coast-wide	1.0
Redstripe Rockfish	5E	4.8
Shortspine Thornyheads	Coast-wide	4.5
Longspine Thornyheads	Coast-wide	0.4
Redbanded Rockfish	Coast-wide	0.8
Bocaccio Rockfish	Coast-wide	0.1
Pacific Cod	5C/D/E	0.3
Dover Sole	5C/D/E	1.4
Petrable Sole	Coast-wide	0.1
Lingcod	5C/D/E	0.3
Spiny Dogfish	Rest of Coast	0.1
Walleye Pollock	5C/D/E	0.4
Pacific Hake	Offshore	2.7
Arrowtooth Flounder	Coast-wide	4.6
Pacific Halibut Mortality	Coast-wide	0.4

#### 11.4. Annual Trawl Total Allowable Catches

TACs listed below have been set for the commercial groundfish trawl fishery for the 2014/2015 fishing season. In some cases, the coast-wide total differs slightly from the amount obtained by summing the Species Management Areas values. This difference is due to the TAC being expressed in whole numbers within the table. For the exact TAC values, please contact the Groundfish Management Unit (see Appendix 1).

Species	Management Area	TAC <sup>1</sup> (tonnes)
Yellowtail Rockfish	3C <sup>5</sup>	995
	3D, 5A/B, 5C/D/E <sup>5</sup>	3,426
	Coast-wide total	4,421
Widow Rockfish	Coast-wide total	2,315
Canary Rockfish	3C/D	503
	5A/B	195
	5C/D	79
	5E	10
	Coast-wide total	789
Silvergrey Rockfish	3C/D	286
	5A/B	558
	5C/D	507
	5E	320
	Coast-wide total	1,670
Pacific Ocean Perch <sup>6</sup>	3C/D	750
	5A/B	1,687
	5C <sup>2</sup>	1,555
	5D/E <sup>2</sup>	1,151
	Coast-wide total	5,143
Yellowmouth Rockfish	3C	219
	3D, 5A/B	1,135
	5C/D <sup>2</sup>	685
	5E <sup>2</sup>	321
	Coast-wide total	2,360
Rougheye Rockfish	Coast-wide	620
Shorthead Rockfish	Coast-wide	125
Redstripe Rockfish	3C	173
	3D, 5A/B	772
	5C/D	330
	5E	241
	Coast-wide total	1,516
Shortspine Thornyheads	Coast-wide	731
Longspine Thornyheads	Coast-wide	405
Redbanded Rockfish	Coast-wide	294
Bocaccio Rockfish <sup>8</sup>	Coast-wide	150
Yelloweye Rockfish	Coast-wide <sup>4</sup>	7
Quillback, Copper, China And Tiger Rockfish	Coast-wide <sup>4</sup>	6

Species	Management Area	TAC <sup>1</sup> (tonnes)
Pacific Cod	3C/D	500
	5A/B	590
	5C/D/E	1,200
	Coast-wide total	2,290
Dover Sole	3C/D	1,375
	5C/D/E	1,099
	5A/B	598
	Coast-wide total	3,072
Rock Sole	3C/D	102
	5A/B	650
	5C/D	800
	Coast-wide total	1,552
Lemon Sole	3C/D, 5A/B	186
	5C/D/E	636
	Coast-wide total	822
Petrale Sole	Coast-wide	900
Lingcod	3C	800
	3D	440
	5A/B	862
	5C/D/E	580
	Coast-wide total	2,682
Spiny Dogfish	4B	640
	Rest of Coast	3,840
	Coast-wide total	4,480
Sablefish	Coast-wide	175
Pollock	Gulf <sup>3</sup>	1,115
	5A/B (includes Area 11, 12)	1,790
	5C/D/E	1,320
	Coast-wide total	4,225
Hake	Gulf <sup>3</sup>	7,000
	Offshore	29,997 <sup>9</sup>
Big Skate	5C/D	567
Longnose Skate	5C/D	47
Arrowtooth Flounder	Coast-wide	14,995
<sup>1</sup> All quotas are in round weight and metric tonnes (mt). To convert mt. to lbs. multiple by 2,204.6		
<sup>2</sup> Pacific ocean perch and yellow mouth rockfish caught within Subarea 102-3 and those portions of Subareas 142-1, 130-3 and 130-2 found southerly and easterly of a straight line commencing at 52°20'00"N 131°36'00"W thence to 52°20'00"N 132°00'00"W thence to 51°30'00"N 131°00'00"W and easterly and northerly of a straight line commencing at 51°30'00"N 131°00'00"W thence to 51°39'20"N 130°30'30"W will be deducted from the vessel's 5C IVQ for Pacific Ocean Perch and 5C/D IVQ for Yellowmouth Rockfish.		
<sup>3</sup> TAC for the Gulf applies to hake and Pollock catches occurring in Areas 13 to 19 and 29. All other hake catches are applied against a vessel's Offshore Hake quota holdings. All other Pollock catch are applied to the area of catch holdings.		
<sup>4</sup> Yelloweye, quillback, copper, china and tiger rockfish will not be allocated as IVQ. All proceeds for landing of these rockfish species will be relinquished and the vessel fishing restrictions for IVQ overage shall not apply.		
<sup>5</sup> Yellowtail rockfish caught in the offshore pacific hake fishery can be deducted from IVQ coast-wide. The vessel master is responsible for designating the area at the time of the offload.		
<sup>6</sup> POP Combine 5ABCD TACs reduction to 3413 mt is to be achieved over a three year period through an annual reduction of 258 mt. 2013/14 was the third year of this three year period. The expected catch level is to be 68% of TAC. TAC is subject to annual review.		

Species	Management Area	TAC <sup>1</sup> (tonnes)
<sup>7</sup> Pacific ocean perch within Subarea 127-1 and that portion of Subareas 127-2 found northerly and westerly of 50°06'00"N will be deducted from the vessel's Pacific Ocean Perch rockfish 5A/B IVQ.		
<sup>8</sup> This is an annual Trawl mortality cap for Bocaccio Rockfish.		
<sup>9</sup> This is a notion TAC for initial licence issuance – The actual TAC will be announced in early April 2014.		

### 11.5. Bocaccio Rockfish Measures

To address the conservation concern for Bocaccio rockfish identified through a Canadian Science Advisory Process review, new management measures were adopted for the groundfish trawl fishery for the 2013/2014 season. These include establishment of an annual trawl mortality TAC, establishing individual vessel licence allocations, establishing holdings caps, and applying all rules governing the Trawl IVQ program for Bocaccio rockfish. These measures will continue for the 2014/2015 season.

Additionally, the trawl industry has reconfirmed its continuation of the 2004 voluntary program whereby groundfish trawl vessel masters donate all proceeds of all landed Bocaccio rockfish for use in groundfish research programs. These management actions have been taken to reduce the trawl fleet's mortality of Bocaccio rockfish and allow for stock rebuilding over the long term. The Department will review the efficacy of these pilot measures at the end of each fishing season and consider any additional measures necessary to support stock rebuilding.

### 11.6. Prohibition on Shark Finning

DFO and the groundfish industry agreed to prohibit the practice of finning of dogfish and sharks off the west coast of Canada beginning in the 2012 fishing season. Though not a common practice in Canada, this action is in response to International concerns with fish handling practices in other jurisdictions, where the fins of sharks are removal at-sea and the remainder of the shark, sometimes still alive, is discarded overboard.

The prohibition is set out as a condition in all commercial groundfish licenses which states that no person shall remove and retain the fins of any Spiny Dogfish or shark without retaining the remainder of the carcass for validation upon landing. The number of fins landed shall correspond to the number of carcasses landed.

### 11.7. Groundfish Size Limits

Fishers are reminded of the following regulatory groundfish size limits:

#### 11.7.1. Lingcod

Head-on: not less than 65 cm in length, measured from the tip of the nose to the tip of the tail.

Head-off: not less than 50 cm in length, measured along the shortest length of the body to the tip of the tail.

#### 11.7.2. Sablefish

Head-on: not less than 55 cm in length, measured from the tip of the nose to the fork of the tail.

Head-off: not less than 39 cm in length, measured from the origin of the first dorsal fin to the fork of the tail.

## 12. TRAWL INDIVIDUAL VESSEL QUOTA ALLOCATIONS

For the 2014/2015 fishing year, the commercial groundfish trawl TACs, less the research allocation for the Groundfish Trawl Multi-species surveys, are allocated as IVQ accordingly:

- i) 80 percent of each TAC will be allocated directly to groundfish trawl licensed vessels as IVQ based on the percentage of IVQ holdings for each species by species/area group held by each licence holder as of midnight February 2<sup>nd</sup>, 2014.
- ii) 20 percent of each TAC will be allocated to groundfish trawl licensed vessels in-season by the Minister of Fisheries and Oceans Canada, taking into consideration advice from the Groundfish Development Authority (GDA).

## 13. TRAWL INDIVIDUAL VESSEL ALLOCATION FORMULA

### 13.1. Initial 1997 Allocation Formula

In 1997, the initial formula used to allocate all groundfish species subject to TAC, with the exception of hake, was based 30 percent on vessel length and 70 percent on average catch of groundfish (excluding hake) during the five year term 1988 to 1992. For this purpose, the length of vessel used in the calculation is the length that was recorded on the Pacific Licensing System on March 31, 1997. The groundfish species included in the catch history calculations are all rockfish, all soles, pacific cod, lingcod, dogfish, sablefish and walleye pollock. For initial allocation purposes, quota catch history attributed to the licence is defined as the quantity of fish landed by the vessel holding that groundfish trawl licence at the time of landing.

The hake IVQ allocation formula was based 30 percent on vessel length, based on the total length of hake vessels only, and 70 percent on average hake catch history for the five year term 1987 to 1991. If a vessel had no history of hake previous 1992, but did participate in the fishery after this date, then they received an allocation based solely on the 30 percent vessel length. However, no vessel qualified for participation in the 30 percent vessel length allocation unless its average landings for the 1987 to 1991 period exceeded 2,000 pounds of hake, or its average landings for the 1992 to 1996 period exceeded that sum.

Based on the above two formulae, each fish harvester with a groundfish trawl licence received two initial IVQ allocations expressed as percentages; one for groundfish other than hake, and one for hake (which may be zero if they do not meet the qualifying criteria). These percentages were then applied to each area and species specific TAC to generate the area and species specific IVQ allocations.

### 13.2. Annual Allocation of Individual Vessel Quota

At the commencement of each fishing year, the percentage of each vessel's IVQ permanent holdings for each species and species/area group as of midnight February 2<sup>nd</sup> of the previous fishing year, are applied against the new year's groundfish trawl TAC's, less the quota allocated for research purposes, to determine the initial actual poundage of fish that a vessel may fish during that fishing season.

## **14. INDIVIDUAL VESSEL QUOTA REALLOCATION RULES**

### **14.1. Reallocation Rules for Inter-Sector Non-T IVQ**

The 2014/2015 IFMP provides for the temporary reallocation of IVQ between different groundfish licence sectors. Each sector has established reallocation rules that govern the temporary movement of IVQ between vessels into and within each sector. For the purposes of the groundfish trawl fishery, all IVQ originating from outside the trawl sector reallocated to the trawl sector will be referred to as Non-T IVQ. Specific rules governing the reallocation of Non-T IVQ are included below.

### **14.2. Groundfish Trawl 2014/2015 Reallocation Sector Rules**

#### **14.2.1. Reallocation Rules Effective February 21st, 2014**

14.2.1.1. Upon application, groundfish trawl vessel owners will be permitted, subject to other requirements outlined below, to make unlimited permanent and temporary reallocations of groundfish IVQ or Non-T IVQ, subject to each individual groundfish trawl licence holdings cap and the fleet wide species caps set out in this plan.

14.2.1.2. Groundfish trawl IVQ and Non-T groundfish IVQ can be reallocated between groundfish trawl vessels holding a valid 2014/2015 groundfish trawl licence and vessels holding valid appropriate groundfish licences.

14.2.1.3. The IVQ percentage held on a groundfish trawl licence as of midnight February 2nd, 2014 will be determined as the permanent IVQ holdings for that groundfish trawl licence for the 2014/2015 season.

14.2.1.4. Requests for reallocation of groundfish IVQ must be received by DFO by 16:00 hours on February 2<sup>nd</sup>, 2015 in order to be processed and determine the permanent IVQ holdings for that groundfish trawl licence used for initial licence issuance for the 2015/2016 season.

14.2.1.5. Only uncaught IVQ is eligible for reallocation.

14.2.1.6. Permanent reallocation requests can submitted either as a percentage of IVQ of the TAC for that species/species area group (SAG) or in pounds. Any permanent reallocation request submitted in pounds will be interpreted as to include both the IVQ and Code of Conduct Quota (CCQ).

14.2.1.7. Permanent reallocations will be expressed as a percentage of the TAC and will be added to the receiving vessel's percentage of the TAC. (For example, the poundage on a groundfish trawl licence is dependent on the total TAC for the year multiplied by the percent of the allocation that vessel holds).

14.2.1.8. Temporary reallocations will be expressed in IVQ pounds and will remain valid for the current fishing year.

14.2.1.9. The minimum quantity of IVQ that may be temporarily reallocated is one pound.

14.2.1.10. The maximum quantity of IVQ on a groundfish trawl licence is subject to the individual vessel holdings cap and coast-wide species caps.

### 14.3. Individual Vessel Quota Species Cap

The following species caps are set on a coast-wide basis for all IVQ species, except hake. The hake species caps are individually applied to Gulf hake and offshore hake allocated for onshore delivery and offshore hake for joint venture delivery. Only temporary quota reallocations are permitted to exceed the individual species holding cap to the temporary species cap level. Temporary vessel caps are subject to adjustment in season.

Species	Permanent Species Cap	Temporary Species Cap	Non-T Temporary Species Cap
	(% of coast-wide TAC)	(% of coast-wide TAC)	(% of coast-wide TAC)
Yellowtail Rockfish	5%	7%	0%
Widow Rockfish	5%	7%	0%
Canary Rockfish	4%	6%	10%
Silvergrey Rockfish	4%	6%	10%
Pacific Ocean Perch	5%	5%	0%
Yellowmouth Rockfish	5%	5%	0%
Roughey Rockfish	7%	10%	10%
Shortraker Rockfish	7%	10%	10%
Redstripe Rockfish	5%	7%	0%
Bocaccio Rockfish	4%	8%	0%
Shortspine Thornyheads	10%	10%	10%
Longspine Thornyheads	10%	10%	10%
Redbanded Rockfish	7%	10%	10%
Yelloweye Rockfish	4%	4%	0%
<b>Quillback Rockfish</b>	<b>4%</b>	<b>4%</b>	<b>0%</b>
<b>Copper, China and Tiger Rockfish Combined</b>	<b>4%</b>	<b>4%</b>	<b>0%</b>
Pacific Cod	4%	6%	0%
Dover Sole	5%	5%	0%
Rock Sole	5%	7%	0%
Lemon (English) Sole	6%	8%	0%
Petrale Sole	4%	6%	0%
Lingcod	5%	7%	10%
Spiny Dogfish	10%	10%	10%
Sablefish	5%	7%	10%
Pollock	10%	15%	0%
Hake (Gulf of Georgia)	15%	15%	0%
Hake (Offshore)	10%	10%	0%
Big Skate	7.5%	7.5%	0%
Longnose Skate	7.5%	7.5%	0%
Arrowtooth Flounder	8.0%	15%	0%



#### 14.4. Individual Vessel Quota Holdings Cap

Each groundfish trawl licence is subject to a total holdings cap. This cap has been set at a level that allows vessel owner(s) to adjust their IVQ holdings to a viable level while ensuring that operators cannot accumulate an unreasonably large amount of IVQ. Non-T IVQ and carryover/underage quota held on the licence will not be included in the calculation of holdings against the vessels individual holdings cap.

A reallocation request which results in one of the groundfish trawl licences involved holding more than its total IVQ holdings cap, measured in groundfish equivalents, will not be approved by Fisheries and Oceans Canada.

IVQ holdings caps were calculated for each groundfish trawl licence, during the first year of the IVQ program. The total IVQ holdings cap for each groundfish trawl licence was measured in groundfish equivalents (described below) as a percentage of total groundfish equivalents. These holdings caps, first determined in 1997, have been subject to increases to reflect the addition of new species to the IVQ program and to allow for modernization of the fleet.

In 2011 DFO and industry agreed to a two step approach to allow a 25% increase in individual vessel's holdings cap. The first 15% increase was implemented during the 2011 season. The final 10% increase was implemented in the 2012 season.

#### 14.5. Groundfish Equivalents

For the purposes of calculating the total IVQ holdings cap for each groundfish trawl licence, for measuring IVQ holdings of a groundfish trawl licence against its cap, and for quota swapping purposes, Fisheries and Oceans Canada has set the following groundfish equivalents (GFE). GFE will be based on price relative to pacific ocean perch (pacific ocean perch = 1.00). These GFE values may be updated at the start of each fishing year.

<b>Species</b>	<b>GFE</b>
Yellowtail Rockfish	1.26
Widow Rockfish	0.96
Canary Rockfish	1.19
Silvergrey Rockfish	1.20
Pacific Ocean Perch	1.00
Yellowmouth Rockfish	1.19
Rougheye Rockfish	1.15
Shortraker Rockfish	1.24
Redstripe Rockfish	0.73
Shortspine Thornyheads	3.38
Longspine Thornyheads	3.38
Redbanded Rockfish	2.00
Bocaccio Rockfish	1.00
Yelloweye Rockfish	1.23
Quillback, Copper, China and Tiger Rockfish	1.21

<b>Species</b>	<b>GFE</b>
Pacific Cod	1.69
Dover Sole	1.33
Rock Sole	1.65
Lemon Sole	1.37
Petrale Sole	3.22
Lingcod	1.75
Spiny Dogfish	0.49
Sablefish	6.30
Pollock	0.66
Hake (Gulf of Georgia)	0.14
Hake (Offshore)	0.22
Big Skate	0.37
Longnose Skate	0.26
Arrowtooth Flounder	0.37
For example:	10,000 lb. of pacific ocean perch + 10,000 lb. of lingcod
	= 10,000 lb. GFE + 17,500 lb. GFE
	= 27,500 lb. GFE

#### 14.6. Quota Overage/Underage Rules

In addition to any of the rules set out in this plan, vessels that exceed by thirty (30) percent (%) the area specific IVQ holdings for a species (excluding Pacific Hake, Sablefish and Bocaccio rockfish which are fifteen (15) percent (%) and halibut at zero (0) percent (%)), shall be restricted to mid-water trawl fishing for the area in which the species IVQ has been exceeded for the remainder of the fishing year, or until such time as sufficient IVQ is transferred onto the groundfish trawl licence to cover overages in excess of the permitted amounts.

Fisheries and Oceans Canada will amend the licence conditions to restrict the vessel to mid-water trawling operations and deliver this amendment to the vessel owner by hand or by registered mail. The amendment will take effect from the date the licence amendment is provided to the vessel owner.

The groundfish trawl industry has reconfirmed its commitment to eliminate all directed fishing by the trawl fleet for Bocaccio, Yelloweye, Quillback, Copper, China and/or Tiger Rockfish. Furthermore the trawl industry, as a disincentive to vessel owners, masters and crews, has also agreed to voluntarily relinquish all proceeds from the sale of these species landed to support groundfish research programs.

#### 14.6.1. Quota Overage/Underage and Quota Carryover

To accommodate fishers in circumstances where catches do not meet the exact IVQ holdings in a given area for a given species, a carryover/underage policy has been implemented which allows fish harvesters to carry uncaught quota forward, or apply catch against its next year's IVQ allocation.

For all species of groundfish subject to IVQ, other than offshore Pacific hake, halibut by-catch and Non-T sablefish IVQ and Bocaccio rockfish the carryover/underage limit is thirty (30) percent of the vessels IVQ holdings for that particular species and species area group.

IVQ holdings used to calculate of overage/underage from one year to another only includes the sum of the Permanent IVQ, Temporary reallocated IVQ and CCQ held on the groundfish trawl licence. Neither GDQ, nor previous carryover quota, nor Non-T groundfish IVQ holdings held on the licence are used in the calculation of carryover quantities for the next season.

For onshore hake and joint venture hake (if applicable), the carryover/underage limit is fifteen (15) percent of the vessel's onshore hake IVQ holdings.

For halibut by-catch mortality, the underage limit is fifteen (15) percent of the vessel halibut by-catch IVQ holdings. ***There is no allowable overage for halibut by-catch mortality.***

For Non-T Sablefish IVQ the carryover/underage limit is fifteen (15) percent of the vessels Non-T sablefish coast wide holdings.

For Bocaccio IVQ the carryover/underage limit is fifteen (15) percent of the vessels Bocaccio holdings.

#### 14.6.2. Rules for All Other Carryovers

Groundfish trawl licensed vessels landing up to thirty (30) percent over the species and area specific IVQ holdings, except for Non-T temporary Sablefish set at the fifteen (15) percent, may keep the proceeds from the overage but will have the equivalent poundage of the overage subtracted from the IVQ holdings of the licence in the following year. The trawl industry has agreed to an automatic voluntary relinquishment of all proceeds for the following species Bocaccio, Yelloweye, Quillback Copper, China and Tiger rockfish for use in support of groundfish research in British Columbia.

All groundfish trawl licensed vessel landings more than thirty (30) percent over the species and area specific IVQ holdings, except for Non-T temporary Sablefish which is at the fifteen (15) percent, must be relinquished for that groundfish trawl licence.

Vessels transferring additional IVQ onto the groundfish trawl licence following a quota overage and/or relinquishment will have the total overage (entire percent plus the relinquished amount) subtracted from the IVQ that is added to the

groundfish trawl licence. The adjustment will be reflected in the groundfish trawl licence amendment. Relinquishments for prior overages will not be reimbursed.

If no further reallocations are processed, the total poundage of the all overages will be subtracted from the IVQ holdings of the licence in the following year.

IVQ overage/underage adjustments in the following year will be attributed to the groundfish trawl licensed vessel which did or did not fish the IVQ in the previous season.

IVQ overage/underage adjustments can be reallocated to any other licensed groundfish trawl vessel.

All weights are fresh round weights as determined by information collected from the dockside observers and at-sea observers.

Vessels in an overage situation can avoid a relinquishment by reallocating applicable IVQ prior to hailing out for the vessel's next trip or within 30 days, whichever comes first.

## **15. GROUND FISH DEVELOPMENT AUTHORITY**

The Groundfish Development Authority (GDA) was established in 1997 as a result of an agreement reached between Fisheries and Oceans Canada and the British Columbia Ministry of Agriculture, Fisheries and Food (MAFF), to include the Coastal Communities Network (CCN) and fishing industry participants in a process that would continue to provide advice on the evolving west coast groundfish fishery.

The GDA provides advice on groundfish allocations to the Ministers of Fisheries for that portion of the TAC not allocated directly to fishers under the allocation formula. The intent of the recommendations was to allocate TAC in a manner that considers fair crew treatment, assists in regional development, promotes and attains a stable market, employment conditions and encourages sustainable fishing practices.

The GDA consists of seven members (Board of Directors) and a Standing Committee of nine advisors (formerly called non-voting members of GDA), whose role it is to provide background information and expertise to the Board of Directors.

Details of the operation of the GDA, its members and terms of reference, objectives and criteria are set out in a separate GDA Operational Plan. The 2014/2015 GDA Operational Plan is available by contacting Charlie Minns, GDA Executive Director at (604) 943-3320 Fax (604) 943-1166, Cell phone (604) 880-1425 or email: cminns@dccnet.com.

### **15.1. Groundfish Development Quota**

For 2014/2015, ten (10) percent of each groundfish trawl TAC will be allocated as Groundfish Development Quota (GDQ). The GDA, on the basis of joint proposals submitted by a processor and one or more groundfish trawl licensed vessel owners, provides advice to the Minister of Fisheries and Oceans Canada on how best to allocate to vessels involved in the joint proposals for GDQ. The GDA rates each proposal on

the merits of the commitments made in the submitted operation plan in addressing the objectives of the GDA for the upcoming fishing year.

### **15.2. Code of Conduct Quota**

Fisheries and Oceans Canada allocates ten (10) percent of each groundfish trawl TAC as Code of Conduct Quota (CCQ). It is intended to promote fair treatment of crew and safe vessel operation under the IVQ program.

CCQ is initially allocated according to each licence's CCQ rating and in proportion to the IVQ holdings for each species by species/area group on the groundfish trawl licence as of midnight, February 2nd of the previous fishing year.

Although each groundfish trawl licence has an initial one hundred (100) percent CCQ rating, the Minister may alter this rating as a result of advice from the GDA regarding the vessel compliance with the general principles set for the CCQ. The general principles, guidelines, and complaints procedure for CCQ are set out in the GDA 2014/2015 Operations Plan.

## **16. CATCH MONITORING AND VALIDATION**

### **16.1. Catch Reporting**

All groundfish trawl licensed vessels are required to accurately record and keep a record of all fishing activities in a groundfish trawl fishing logbook, (see the example found on last page of this harvest plan).

The fishing master must ensure that the fishing logbook is available for use, prior to fishing, that sufficient pages are available to cover any fishing trip and that information is recorded for each tow, immediately after completion of the tow.

Completed original logbook pages must be submitted to the Department at the time of landing fish at the end of each trip.

### **16.2. Port Monitoring**

A comprehensive industry funded one hundred (100) percent port monitoring program shall continue in the 2014/2015 fishing year.

All groundfish trawl licensed vessels, regardless of the area or species fished, must have all of their groundfish catches validated, whether landed in Canada or in the United States, to ensure that proper sorting, weight and enumeration by species occurs.

The groundfish trawl sector has tasked the Canadian Groundfish Research and Conservation Society (CGRCS), on its behalf, to negotiate and secure a contract(s) for the provision of the port monitoring services. The CGRCS has selected and contracted Archipelago Marine Research Ltd (AMR) as the sole service provider for port monitoring services to the groundfish trawl fleet for the 2014/2015 fishing season.

Details of the groundfish port monitoring program are available by contacting Bruce Turriss, the Executive Director of the CGRCS or at (604) 524-0005 Fax (604) 524-01510 or email: [bruce\\_turriss@telus.net](mailto:bruce_turriss@telus.net) or AMR at 1-800-663-7152,

Monitoring requirements in effect for the groundfish trawl IVQ fishery include the mandatory requirement to hail-out and hail-in for each trip and landing. Detailed catch verification, hail-out and hail-in requirements are found in the 2014/2015 Groundfish Trawl Conditions of Licence issued with each groundfish trawl licence.

Following completion of the trip, the service provider will finalize the catch record by assigning catch to management areas fished. This information will be forwarded to the vessel owner within 48 hours of the completion of the offload in the form of the Groundfish Quota Status Report. It is the responsibility of the vessel owner to ensure that the Groundfish Quota Status Report is on board the vessel prior to the commencement of the next fishing trip, and is made available, upon request, to a Fisheries and Oceans Canada certified observer.

For the 2014/2015 season there continues the opportunity for Option A vessels to land a portion the fish on board the vessel (either fresh, frozen or live) provided that the vessel master ensures that same groundfish at sea observer that was present on board the vessel during the fishing trip remains onboard for the next fishing trip. All fish caught during one fishing trip and not landed at the conclusion of that trip, must be landed at the conclusion of the next fishing trip.

This measure is to assist fishers and provide greater flexibility in managing their catch and reduce at-sea releases. Specific rules governing split and partial landings are set out in the terms and conditions of the Option A groundfish trawl licence. This privilege will be monitored by the Department in-season to ensure compliance, proper accounting, and control and management of the fishery, and may be subject to change.

Individual vessels may request modified offloading procedures, which are more applicable to their operation. If this is requested, departmental, CGRCS and/or contract personnel shall determine the feasibility of the modifications. Particulars of allowed offloading procedures are set out in the vessel's licence conditions.

### **16.3. At Sea Monitoring**

Fisheries and Oceans Canada announced in May 2012 that DFO will no longer provide funding support for the provision of at-sea or electronic monitoring services in all regions of Canada as of April 1<sup>st</sup>, 2013. Responsibility for provision of monitoring services lies with the vessel master.

#### **16.3.1. Option A Monitoring Requirements**

The 100% at-sea observer coverage requirement for the Option A fleet continues to be in effect. This level of coverage enables DFO and the industry to maintain and strengthen stock assessment capabilities, to provide for effective area and species-specific management, and to effectively monitor by-catch under the highly complex IVQ management program.

The groundfish trawl sector has tasked the Canadian Groundfish Research and Conservation Society (CGRCS), on its behalf, to negotiate and secure a contract(s) for the provision of the required at-sea observer services. The CGRCS has selected and contracted Archipelago Marine Research Ltd as the sole service provider for the period January 1<sup>st</sup>, 2014 to December 31<sup>st</sup>, 2014.

Details of the groundfish trawl at-sea observer program are available by contacting Bruce Turris, the Executive Director of the CGRCS or at (604) 524-0005 Fax (604) 524-01510 or email: [bruce\\_turris@telus.net](mailto:bruce_turris@telus.net)

Vessels choosing Fishing Option A are required to carry a DFO certified groundfish at-sea observer on all fishing trips during the 2014/2015 season except when the vessel is hailed out on either an Option-A shoreside hake trip or Option-A joint venture hake trip or Option-A Gulf Hake trip using mid-water for Pacific hake that delivers all fish caught as fresh round product to land or to a Canadian licence foreign fishing vessel (herein referred to as the DFO Exemption Guidelines for carrying an At-Sea Observer).

An Option A vessel when directed mid-water trawling for Pacific Hake in the Gulf of Georgia (4B) or in offshore waters is subject to one hundred (100) percent at-sea monitoring program for all fishing activities. Vessels masters mid water trawling for Pacific hake and delivering all fish caught as fresh round product to land in the shore based fishery or in the approved Joint Venture hake fishery may opt to utilize either an onboard at-sea observer or use an electronic monitoring system (EM). All vessel masters opting for use of an EM system while mid-water fishing for hake are subject to full retention (100%) of all fish caught with the exception of prohibited species.

In those situations where the vessel master may use either an at-sea observer or an Electronic Monitoring (EM) system, and the vessel master opts to use an EM system, the vessel shall have an EM system that meets the requirements as stated in the licence conditions for that vessel.

Where an EM system is in use on a vessel, the vessel master shall ensure all components of the EM system are fully operational and in use during the entire fishing trip from the time the vessel leaves port until the vessel arrives at port to commence the validation of their catch. The EM system shall be continuously powered and not turned off at any time.

If at any time during a fishing trip the EM system fails to function as required by licence conditions the vessel is deemed to have failed to comply with these exemption guidelines and may be directed to carry an at-sea observer at the discretion of a fishery officer.

At-sea monitoring requirements for vessels directed midwater fishing for hake will be discussed prior to the start of the 2014 hake fishery and thus may be subject to inseason modification.

A vessel which is on a dedicated offshore hake trip without an at-sea observer on board is permitted a ten (10) percent by-catch allowance of other groundfish, excluding sablefish, halibut and walleye pollock, subject to available IVQ holdings. The by-catch

allowance for walleye pollock is restricted to thirty (30) percent of the offshore hake landing. Any catch of groundfish (other than hake) in excess of the set allowance must be relinquished. All by-catch will be deducted from the vessel's IVQ holdings. Fishers who may wish to retain more than the by-catch allowance while on a dedicated hake trip must carry an at-sea observer for that trip.

#### 16.3.2. Criteria to Disembark At-Sea Observers

If a vessel has discontinued fishing and is transiting directly to an offloading port, the vessel master may request that the observer may disembark in Port Hardy, Victoria, Ucluelet or Prince Rupert. The following requirements shall apply:

- i) A hail-in as described in the Conditions of the 2014/2015 Groundfish Trawl Licence shall be made to the designated service provider.
- ii) The use of Port Hardy shall only be considered when the vessel is transiting southbound between Vancouver Island and the mainland of British Columbia.
- iii) The use of Victoria shall only be considered when the vessel is transiting eastbound to a Canadian landing port or transiting southbound to Blaine, Bellingham or Anacortes in Washington State.
- iv) The use of Ucluelet shall only be considered when the vessel is transiting directly to Port Alberni, southbound to a Canadian landing port or to Blaine, Bellingham or Anacortes in Washington State.
- v) The use of Prince Rupert shall only be considered when a vessel is transiting southbound between Vancouver Island and the Mainland of British Columbia to a Canadian landing port or to the ports of Blaine, Bellingham or Anacortes in Washington State.

#### 16.3.3. Option B At-Sea Monitoring requirements

All Option B groundfish trawl vessel are subject to a mandatory one hundred (100) percent at-sea monitoring program for all fishing activities. Vessels masters may opt to utilize either an onboard at-sea observer or use an electronic monitoring system (EM). It is the responsibility of the vessel master to ensure arrangements for at-sea monitoring services are in place prior to commencement of any fishing operations.

In those situations the vessel master when utilizing an EM system instead of a designated groundfish at-sea observer the vessel master shall ensure the vessel is equipped with an EM system that meets the requirements set out in the conditions of groundfish trawl licence for that vessel.

Where an EM system is in use on a vessel, the vessel master shall ensure all components of the EM system are fully operational and in use during the entire fishing trip from the time the vessel leaves port until the vessel arrives at port to commence the validation of their catch. The EM system shall be continuously powered and not turned off at any time.

If at any time during a fishing trip the EM system fails to function as required by licence conditions the vessel is deemed to have failed to comply with these exemption guidelines and may be directed to carry an at-sea observer at the discretion of a fishery officer.



## **16.4. Conversion Factors**

To facilitate the conversion of product weight to round weight for the purposes of monitoring catches against TAC and IVQ holdings, the Department shall use set conversion factors and ice/slime and glaze allowances.

The factors and allowances that shall be used at the commencement of the 2014/2015 fishery are set out in the conditions of each groundfish trawl licence. As changes may be made in-season, the conditions of the groundfish trawl licence should be referenced to determine what factors and allowances are in effect at any time.

Individual vessels may request in writing to use different conversion factors and/or ice/glaze allowances, which are more applicable to their operation. Testing will be conducted to verify the applicability of different conversion factors/ice/glaze allowance. To facilitate this request verification of these different factors will be conducted at the owner's expense that includes product samples and approved contract personal. Where at-sea testing is required, such testing by DFO approved protocols by approved contract personnel. Test results may result in DFO amending licence conditions/dockside monitoring protocols to reflect agreed upon new factors. Further testing may be required in-season to verify the continued appropriateness of the amended factors.

## **17. HALIBUT BY-CATCH MANAGEMENT PLAN**

### **17.1. Halibut Prohibition**

Halibut caught while fishing under the authority of a groundfish trawl licence cannot be retained and must be returned to the water as quickly as possible.

### **17.2. Halibut Mortality Fleet Cap**

For the 2014/2015 fishing year, the halibut by-catch mortality cap for the trawl fleet is set at 1,000,000 pounds (~454 tonnes). All estimated halibut by-catch mortality will be deducted from a vessel's individual cap.

### **17.3. Halibut Species Mortality Cap**

No groundfish trawl licence can hold permanently more than four (4) percent of the total halibut by-catch mortality cap for the trawl fleet. No groundfish trawl licence can hold temporarily more than eight (8) percent of the total halibut by-catch mortality cap for the trawl fleet.

### **17.4. Halibut By-catch Reallocation**

Uncaught halibut by-catch mortality IVQ can be reallocated, subject to the halibut species mortality cap rules set out above. Halibut by-catch IVQ is not to be considered as part of the groundfish trawl vessel's groundfish IVQ holdings for holdings cap calculations/limits.

### **17.5. Halibut By-catch Quota Overage**

Halibut catch in excess of a vessel's individual halibut by-catch cap will result in the vessel being restricted to mid-water species coast-wide for the remainder of the fishing year, or until sufficient additional halibut by-catch cap is reallocated onto the groundfish trawl licence to cover the overage. For the proper conservation and management of the resource, halibut overages in the current year will be deducted from the groundfish trawl licence's halibut by-catch mortality cap allocation in the following year.

### **17.6. Halibut By-catch Underage**

A groundfish trawl licensed vessel may carry forward up to fifteen (15) percent of their halibut by-catch mortality holdings that are uncaught into the following fishing season.

## **18. HABITAT CONSERVATION MEASURES: CORALS AND SPONGES**

The Canadian Groundfish Research and Conservation Society, on behalf of the British Columbia groundfish trawl industry, and the Pacific Marine Conservation Caucus agreed in 2012 to innovative restrictive management measures to provide additional protection of Coral and Sponge Habitat off the west coast of Canada. The objectives of this agreement are:

- To reduce and manage the catch of corals and sponges by the British Columbia groundfish bottom trawl fishery with a management objective of an annual coral and sponge fleet-wide catch at the 2009 level or lower (coral 562 kg, sponge 322 kg);
- To reduce the impact of the British Columbia groundfish bottom trawl fishery on low energy and low productivity environments in deep waters off of the west coast of British Columbia;
- To ensure that the British Columbia groundfish bottom trawl fishery does not disproportionately affect any one particular benthic habitat type;
- To ensure that the British Columbia groundfish bottom trawl fishery is restricted to areas previously trawled between 1996-2011;
- To improve the performance of the British Columbia groundfish bottom trawl fishery against habitat criteria used to evaluate the sustainability of fisheries.

To achieve these objectives the following management measures were agreed to:

- Freeze the footprint of where groundfish bottom trawl activities can occur (see section 18.10).
- Establishing a combined habitat bycatch conservation limit (HBCL) for coral and sponges.
- Allocating the HBCL among groundfish trawl licence holders and allow for transferability within specified vessel caps with the groundfish trawl fleet,
- The establishment of an encounter protocol for trawl tows where combined coral and sponge catch exceeds 20 kg.

The Groundfish Trawl Advisory Committee (GTAC) at its January 11, 2012 meeting approved of these measures and recommended that the Department implement them into the groundfish Integrated Fisheries Management Plan. The specific management measures adopted are below:

### 18.1. Coral and Sponge Retention Rules

Corals and Sponges are not permitted to be retained unless authorized by Fisheries and Oceans Canada.

### 18.2. Fleet-wide Habitat Bycatch Conservation Limit

For the 2014/2015 fishing year, the coastwide HBCL for the trawl fleet is set at 9,921 pounds (4500 kilograms). All estimated sponge and coral bycatch mortality will be assessed against a vessel's individual HBCL. The mortality rate applied to all coral and sponge catch is 100 %.

### 18.3. Corals and Sponges Subject to Management Measures

Species Taxonomic groupings of corals and sponges used by the observer program, and included in the Habitat Bycatch Conservation Limit:

<b>Coral</b>	<b>Coral</b>	<b>Sponge</b>
Hexacorallia	Primnoa	Calcareous
Stony	Stylatula elongate	Glass
Alcyonaria	Sea pens	Bath
Gorgonian	Sea whips	
Paragorgia arborea	Virgularia	
Paragorgia pacifica		

### 18.4. Habitat Bycatch Conservation Limit Mortality Cap

No Category "T" license will be authorized a permanent allocation that exceeds 4% and a combined permanent and temporary allocation that exceeds 30% of the coastwide HBCL for either coral or sponge. The initial annual temporary cap will be set at 6% of the coastwide HBCL. Changes to the initial temporary cap will be made by DFO after receiving advice through the Groundfish Trawl Advisory Committee.

### 18.5. Habitat Bycatch Conservation Limit Reallocation

Uncaught HBCL IVQ can be reallocated, subject to the cap rules set out above. HBCL IVQ is not to be considered as part of the groundfish trawl vessel's groundfish IVQ holdings for holdings cap calculations/limits.

### 18.6. Habitat Bycatch Conservation Limit Quota Overage

The individual HBCL will hold each vessel accountable and responsible for all capture of coral and sponge. HBCL catch in excess of a vessel's individual HBCL will result in the vessel being restricted from groundfish bottom trawling coast-wide for the remainder of the fishing year, or until sufficient additional HBCL is reallocated onto the groundfish trawl licence to cover the overage.

### 18.7. Habitat Bycatch Conservation Limit Underage

Category "T" licenses vessels are permitted to carry forward annually a maximum amount of uncaught individual HBCL equal to 10% of the total HBCL issued to the license. The equivalent weight will be added to the vessel's HBCL allocation in the following year.

## **18.8. Habitat Conservation Review Committee**

The BC groundfish trawl industry, MCC and Fisheries and Oceans Canada staff agree to work collaboratively in the monitoring and evaluation of the habitat conservation measures. A joint Habitat Conservation Review Committee (HCRC) will be established to review and assess annually and over time:

1. Compliance with the established groundfish bottom trawl boundaries and agreement to avoid non-trawled areas within the footprint;
2. The area covered and the level of effort by the Option A groundfish bottom trawl fishery, by depth strata, eco-region, and substrate type;
3. Total catch of coral and sponge, number of transfers of individual HBCL, amount of coral and sponge individual HBCL carryover of underage or overage;
4. Coral and sponge hotspots, including but not limited to those identified through the encounter protocol;
5. At-sea and dockside coral and sponge reporting procedures and requirements;
6. The effectiveness of the individual HBCLs at providing incentives for minimizing capture of coral and sponge and consideration in the development of further habitat management measures.

Advice on changes from the HCRC will be brought to the Groundfish Trawl Advisory Committee for discussion.

## **18.9. Encounter Protocol**

Observer data collected from the British Columbia groundfish trawl fishery between the years of 2005-2009 indicate that the vast majority of coral/sponge bycatch events result in less than 20 kilograms caught in one tow. A catch of more than 20 kilograms in one tow, therefore, is a rare event and indicates a potential interaction with a substantial coral and/or sponge aggregation. Such situations require an “encounter protocol”. Essentially, an encounter protocol is a rapid-response procedure to re-direct bottom trawl fishing activity away from the area, in order to limit further damage to the recently-encountered coral/sponge aggregation. The initial protocol catch level is set at 20 kilograms of coral and sponge combined, but will be reviewed annually.

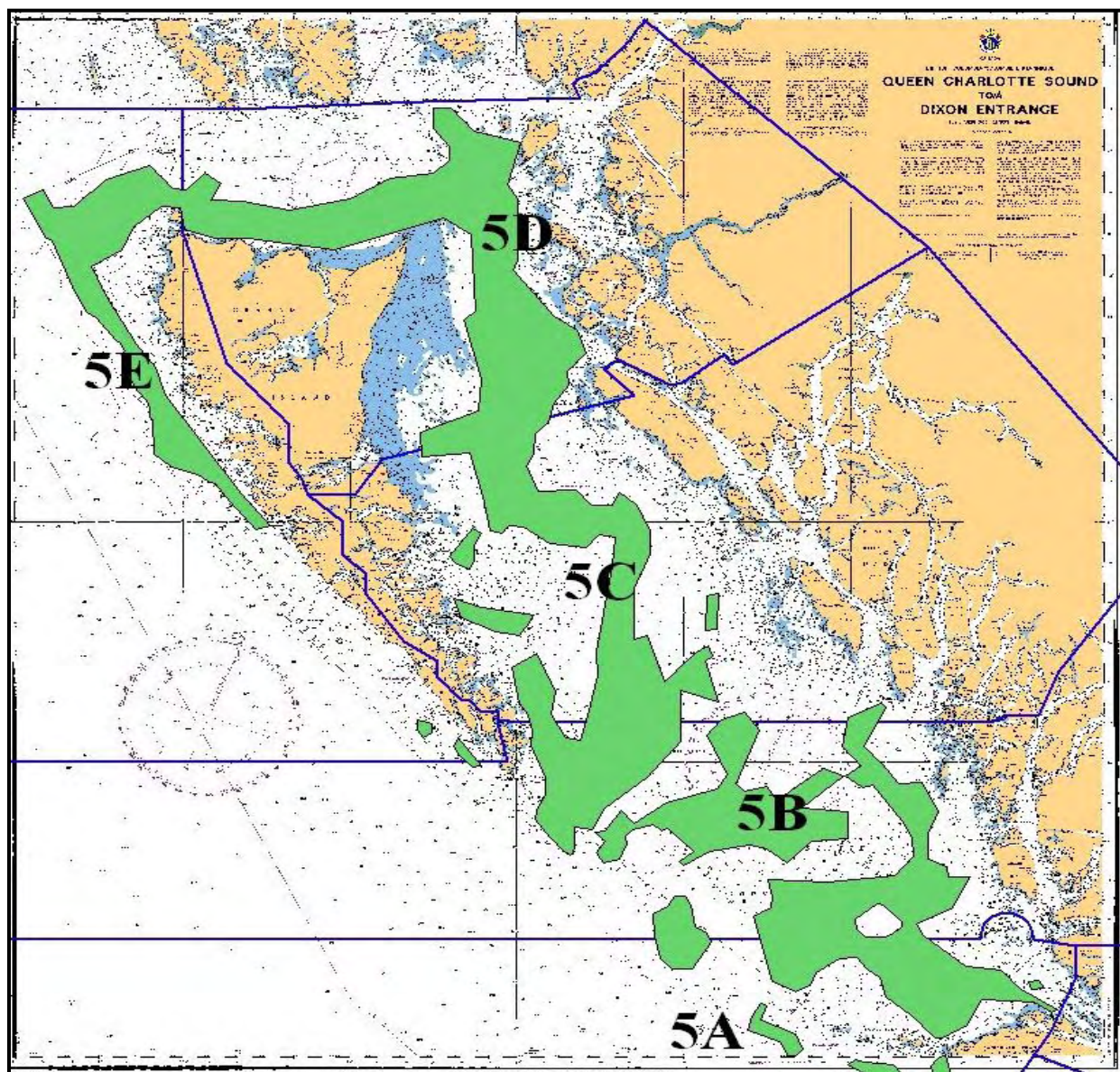
In the event that a vessel catches more than 20 kilograms of combined coral and sponge in a single tow, the following procedure will occur:

1. The at-sea observer will collect information;
2. Information about the location of the coral or sponge capture, and the amounts caught, will be communicated to the trawl industry through the Quota Status Reports that are updated on a daily basis;
3. Vessels will be encouraged to avoid the area where the bycatch of coral and sponge occurred;
4. The incident, and the response of the fleet to the encounter, will be reviewed by the Habitat Conservation Review Committee. This procedure will be followed any time a vessel catches more than 20 kilograms of combined corals or sponges in one tow, regardless of that vessel’s HBCL holdings at the time. The vessel is still responsible for covering the coral/sponge catch with individual HBCL.

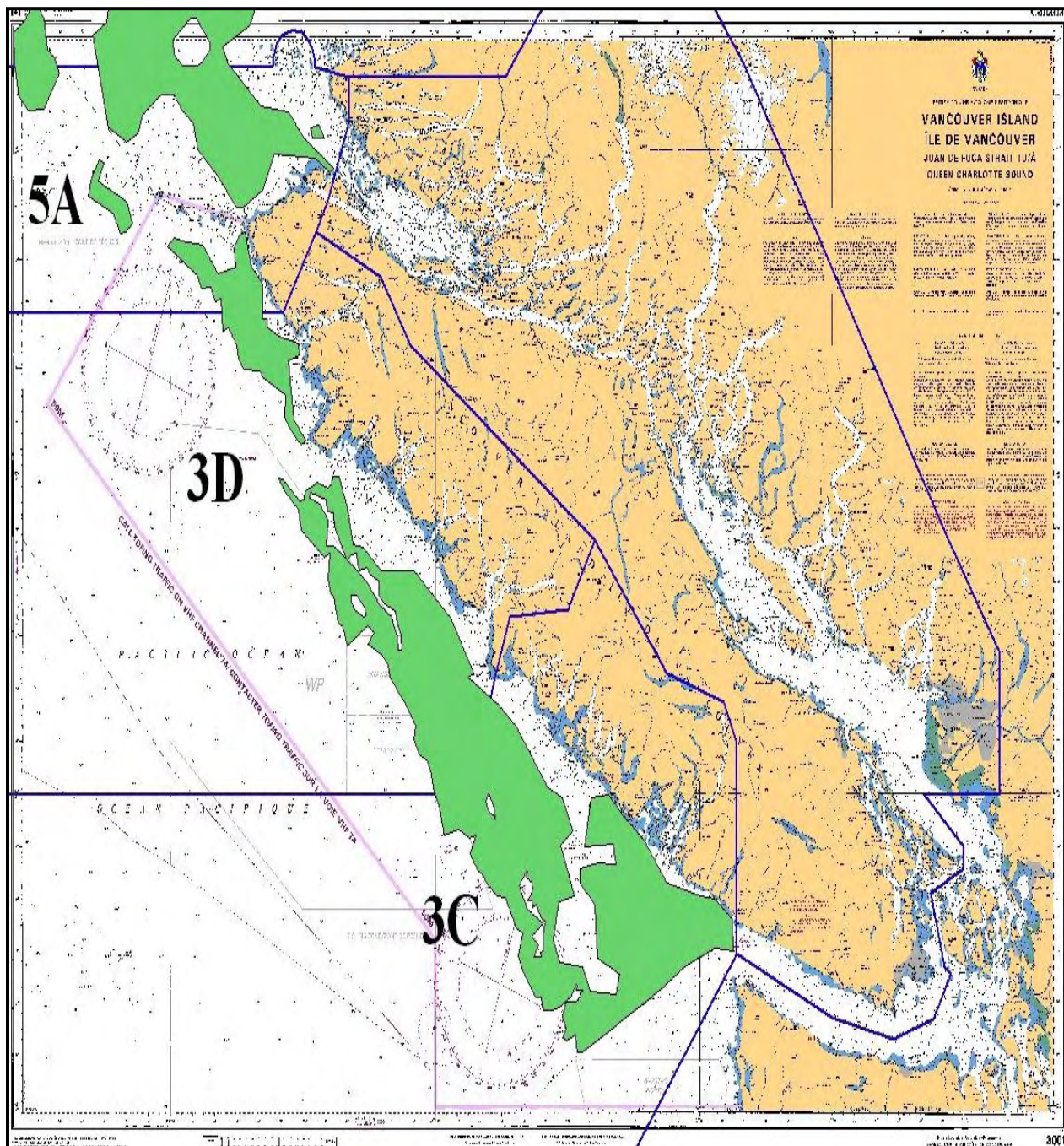
### 18.10. Areas Permitted to be Fished

All vessels fishing bottom trawl under the authority of a valid Category “T” commercial Groundfish trawl license selecting Option A as identified in the Groundfish Trawl Commercial Harvest Plan within the Pacific Region Integrated Fisheries Management Plan for Groundfish are permitted to fish with bottom trawl gear within the boundaries outlined in the two graphics below, notwithstanding other seasonal closures, Rockfish Conservation Closed Areas and Glass Sponge Reef Closed Areas set out within this plan. All areas found outside the outlined areas, except with Area 4B (Area 12 to 20 and 29) are closed to fishing with bottom trawl gear year round. The graphics below are for illustration purposes only. A full description of the Open and Closed areas boundaries are set out in Section 6 of this plan.

#### Queen Charlotte Sound, Hecate Strait and West coast of Gwaii Haanas Islands footprint.



## West Coast of Vancouver Island footprint



### 19. FISH RELEASED AT SEA

The mortality of all species of groundfish (including Non-T IVQ) that are released at-sea shall be levied as catch against a vessel's IVQ holdings or annual TAC subject to mortality rates below.

The weight of fish released at sea will be multiplied by the mortality rate set out below to calculate released mortality.

### 19.1. Mortality Rates

Mortality rates for fish released at sea are as follows:

Species	Mortality Rates
Soles	10% mortality for the first two hours fished or portion thereof and, 10% for each additional hour <sup>1</sup> .
Lingcod	10% mortality for the first two hours fished or portion thereof and, 10% for each additional hour <sup>1</sup> .
Sablefish	10% mortality for the first two hours fished or portion thereof and, 10% for each additional hour <sup>1</sup> .
Pacific Cod And Pollock	25% mortality for the first two hours fished or portion thereof and, 25% for each additional hour <sup>1</sup> .
Spiny Dogfish	5% mortality for the first two hours fished or portion thereof and, 5% for each additional hour.
Big and Longnose Skate	5% mortality for the first two hours fished or portion thereof and, 5% for each additional hour.
All Rockfish	100% mortality regardless of time fished.
Longspine/ Shortspine Thornyhead	100% mortality regardless of time fished.
Arrowtooth Flounder	100% mortality regardless of time fished
Pacific Hake	100% mortality regardless of time fished
<sup>1</sup> Fishing time is defined as the period following shooting of the gear during which the trawl winches are locked. For that portion of a tow time less than 60 minutes, mortality rate shall be determined by multiplying the number of full hours of the tow by the mortality rate and adding to that the ratio of the portion of an hour by the applicable mortality rate to determine the overall mortality of the species for that tow. For a 2 hour and 20 minute tow the formula used to determine sablefish mortality is: ((2hrs x 10%)* est. release weight) + (((20min/60min) x 10%)* released weight)	

The above mortality rates do not necessarily reflect true mortality rates of fish released at-sea, but are intended to provide incentives for vessel operators to reduce towing time and avoid by-catch wherever possible.

All fish landed shall be levied as catch against the appropriate area and species-specific IVQ or by-catch cap. For halibut, a DFO certified at-sea observer shall assess the condition of the fish before it is returned to the water, in order to apply the appropriate mortality factor.

## 20. SPECIES AT RISK SHARK ENCOUNTER PROTOCOL

Since the 2012/2013 season, the Groundfish trawl industry in support of Fisheries and Oceans Canada's increased conservation efforts for some Elasmobranches, and in particular those listed as SARA species, supports a prohibition on the selling and retention of Pacific Basking Shark, Tope (Soupfin) Shark or Bluntnose Sixgill Shark in the British Columbia groundfish trawl fishery.

Additionally, cognizant of the international efforts taken to protect shark species, the groundfish trawl industry agreed to eliminate all directed fishing for shark species, other than Pacific Spiny Dogfish, as of the 2012/2013 season.

It is important to recognize that most current encounters of these and other shark species are not targeted, the industry in conjunction with the Department has initiated discussions to develop practical measures and protocols that may minimize encounters and mortality.

These measures include:

- modification of fishing plans to remove all directed fishing for sharks, other than Spiny Dogfish.
- modifications of fishing practices by taking into account advice and experience of other harvesters regarding areas of higher shark abundance and densities
- investigation of trawl gear modifications, such as mesh sizes, excluder grids or acoustic deterrent devices, which may lead to reduce interactions of sharks and trawl fishing gear.
- developing fishing plans that take in to account avoidance of known important habitats for sharks (such as pupping and nursery habitats) and migratory routes.

Specifically for Pacific Basking shark, pursuant to subsection 73(2) (c) and section 74 of the Species at Risk Act (SARA), the vessel master, prior to and while conducting fishing activities, shall ensure that:

- every measure will be taken to avoid the incidental capture of the Pacific Basking Shark.
- fishing gear is not set or hauled when Pacific Basking Sharks are within 10 metres of the fishing vessel, and/or are visible at the water's surface.
- any Pacific Basking Shark, Tope (Soupfin) Shark or Bluntnose Sixgill Shark incidentally caught and alive, is released in a manner that causes them the least harm, subject to completion of DFO Bio-sampling protocols.

### Bio-sampling protocol

When capture of any of Pacific Basking Shark, Tope (Soupfin) Shark or Bluntnose Sixgill Shark occurs the vessel master, prior to the fish's release (alive if possible), shall ensure that the bio-sampling requirements as set out by DFO are conducted as quickly as possible by the onboard at-sea observer or a member of the vessel's crew.

The fishing master shall ensure that any bio-samples gathered are retained and stored to DFO requirements and such samples are provided in a secure manner to DFO upon termination of the trip.



## 21. HAKE FISHERY

The offshore Pacific hake fishery will be managed under the general IVQ program in place for the groundfish trawl fishery. On Nov. 21, 2003, an Agreement between the Government of the Canada and the Government of United States on Pacific Hake/Whiting was signed.

The agreement establishes agreed percentage shares of the transboundary stock of Pacific hake, also known as Pacific whiting. It also creates a process through which scientists and fisheries managers from both countries will recommend the total catch of Pacific hake each year. The agreement anticipates that stakeholders from both countries will have significant input into this process.

The agreement, implemented for the first time in 2012, created four new bodies to assist the governments of Canada and the United States to assess and sustainably manage the shared resource:

- The Joint Management Committee (JMC) is charged with determining the Total Allowable Catch of hake/whiting every year.
- The industry Advisory Panel (AP) is charged with reviewing the management of the fishery and making recommendations to the JMC regarding the overall Total Allowable Catch.
- The Joint Technical Committee (JTC) is charged with annually providing the JMC with a stock assessment that includes scientific advice on the annual potential yield of the offshore hake/whiting resource that may be caught for that fishing year.
- The Scientific Review Group (SRG) is charged with providing an independent peer review of the work of the JTC.

Additional details on the Canada/US Treaty process can be found at: <http://www.nwr.noaa.gov/Groundfish-Halibut/Groundfish-Fishery-Management/Whiting-Management/Treaty.cfm>

The 2014/2015 offshore hake TAC and further details of the in-season management measure will be set out in an addendum to this harvest plan once the above process has been completed and approved by DFO. Industry consultations on the addendum will be initiated in April 2014.

## 22. EXAMPLE OF GROUNDFISH TRAWL FISHING LOGBOOK

Fisheries and Oceans / Pêches et Océans Canada		<b>GROUNDFISH TRAWL FISHING INFORMATION LOG</b>				Page <b>2</b> of <b>2</b>
Vessel Name <b>SEA WATER</b>		VRN# <b>29999</b>	Licence # <b>TC155</b>	Trips # <b>55</b>	Hall Out# <b>21810476</b>	
Captain <b>JOHN DOE</b>		CAPT. FIN # <b>1234567</b>	Port of Landing <b>UCL</b>	Hall In# <b>21824596</b>		
At Sea Observer <b>DON TRIP</b>		Code <b>18637</b>	Offload Location <b>BORNSTEIN</b>	Departure Date <b>20 / 05 / 04</b>		
			Buyer/Processor <b>SEA DRIFT</b>	Landing Date <b>30 / 05 / 04</b>		

Tow #	BT or MT	003		BT 004		T T O W		T T O W		T	
Date		26 / 05 / 04		26 / 05 / 04							
Name of Grounds		C. SCOTT SPLITT		C. SCOTT SPLITT							
Fishing Area		127-04 major area 3D		127-04 major area 3D							
Time (24hr clock)		set 07:45	haul 09:50	set 10:45	haul 12:00						
Set: Latitude		50 43 51		50 43 51							
Longitude		28 38 50		28 38 50							
Mid: Latitude		50 42 10		50 42 10							
Longitude		28 28 20		28 27 23							
Haul: Latitude		50 42 91		50 42 91							
Longitude		28 27 23		28 27 23							
Fishing Depth		start 41	mid 36	start 41	mid 36						
Meters		36		36							
Fathoms		36		36							
Tow Speed - Codend		34 KN	100 ft	34 KN	100 ft						
Gear Depth		40 / 40	250	40 / 40	250						
Spread		45 / 24	8	37 / 19	6						

TS - Target Species	TS	retained (lb)	released (lb)	TS	retained (lb)	released (lb)	TS	retained (lb)	released (lb)	TS	retained (lb)	released (lb)
418 Yellowtail RF												
417 Widow RF												
437 Canary RF												
405 Silvergrey RF												
396 Pacific Ocean Perch												
440 Yellowmouth RF												
394 Rougheye RF												
403 Shorttail RF												
439 Redstripe RF												
401 Redbanded RF												
435 Bocaccio												
451 Shortspine TH	3		0	3	110							
453 Longspine TH												
626 Dover Sole	1	14000	100	1	20000	100						
621 Rock Sole												
628 Lemon Sole												
607 Petrale Sole												
610 Rex Sole												
631 Starry Flounder												
602 Turbot	2	100		2	500							
222 Pacific Cod												
467 Lingcod												
044 Dogfish												
455 Sablefish												
228 Pollock												
225 Hake												
056 Big Skate		200			100							
059 Longnose Skate												
540 Cabezon												
472 Sculpin												
614 Halibut	x x x x x x		130	x x x x x x		130	x x x x x x			x x x x x x		

Tow Comments:	WEATHER GETTING BAD	CUT TRIP SHORT BAD
	GOING TO MAKE ONE	WEATHER!
	MORE TOW.	

Log removed by: \_\_\_\_\_      While Copy - DFO Original • Yellow Copy - DFO • Pink Copy - Vessel

## Appendix 9: Rebuilding Plans for Groundfish Species

### TABLE OF CONTENTS

1.0	FOREWORD .....	2
2.0	INTRODUCTION .....	3
3.0	OVERVIEW OF THE FISHERY .....	3
4.0	BIOLOGICAL SYNOPSIS AND STOCK STATUS.....	3
5.0	SOCIO-ECONOMIC AND CULTURAL IMPORTANCE .....	4
6.0	MANAGEMENT ISSUES .....	4
7.0	OBJECTIVES .....	4
8.0	MANAGEMENT MEASURES .....	5
9.0	COST BENEFIT ANALYSIS .....	6
10.0	EVALUATION AND PERFORMANCE REVIEW .....	6

## 1.0 FOREWORD

Fisheries and Oceans Canada (DFO) has developed “*A Fisheries Decision-Making Framework Incorporating the Precautionary Approach*” (PA Framework) under the auspices of the Sustainable Fisheries Framework. It outlines the departmental methodology for applying the precautionary approach (PA) to Canadian fisheries. A key component of the PA Framework requires that when a stock has reached or fallen below a limit reference point (LRP), a rebuilding plan must be in place with the aim of having a high probability of the stock growing above the LRP within a reasonable timeframe.

The purpose of rebuilding plans is to identify the main objectives and requirements for any species below an LRP (i.e., in the “critical zone” of the PA Framework), as well as the management measures that will be used to achieve these objectives.

This appendix outlines rebuilding plans for groundfish species that (a) have been identified by peer reviewed stock assessments as currently in the critical zone under the PA framework and (b) are not covered by other management planning tools for depleted species, such as Species At Risk Act-listed species that require a recovery plan or management plan.

This document also serves to communicate the basic information on the stock(s) and its management to DFO staff, legislated co-management boards and other fishery interests. This plan provides a common understanding of the basic “rules” for rebuilding the stock(s). The objectives and measures outlined in this plan are applicable as long as the stock(s) is below the LRP. Once the stock grows and remains consistently above the LRP, the stock(s) will be managed through the provisions of the Groundfish IFMP.

Management measures outlined in this rebuilding plan are mandatory, and may be modified to include additional catch restrictions if they fail to result in stock rebuilding.

This rebuilding plan is not a legally binding instrument which can form the basis of a legal challenge. The plan can be modified at any time and does not fetter the Minister's discretionary powers set out in the *Fisheries Act*. The Minister can, for reasons of conservation or for any other valid reasons, modify any provision of the rebuilding plan in accordance with the powers granted pursuant to the *Fisheries Act*.

Where DFO is responsible for implementing a rebuilding plan in an area under a land claim agreement, the rebuilding plan will be implemented in a manner consistent with that agreement.

## 2.0 INTRODUCTION

The groundfish species currently subject to rebuilding plan provisions is Bocaccio rockfish.

## 3.0 OVERVIEW OF THE FISHERY

Bocaccio are known to be caught in the fisheries listed below, which occur coastwide, though they may also be caught in other fisheries.

- Commercial fisheries: Bocaccio are primarily caught incidentally in several fisheries: groundfish trawl, groundfish hook and line and trap, salmon troll.
- Recreational fisheries: Bocaccio are primarily caught incidentally by recreational anglers when fishing for rockfish, lingcod, and salmon.
- Food, Social, and Ceremonial fisheries: catch reports include records of Bocaccio catch.

Catch information for the commercial salmon troll fishery, recreational fisheries, and Food, Social, and Ceremonial fisheries is limited.

## 4.0 BIOLOGICAL SYNOPSIS AND STOCK STATUS

Bocaccio are long lived and slow growing; generation time is treated as 20 years in the most recent stock assessment. Currently, Bocaccio are treated as a single coastwide stock. They are found over various bottom types, most commonly off bottom in depths of 60-340 m.

DFO Science published a stock assessment for Bocaccio in 2009 which was updated in 2012. The 2012 assessment reported a median estimate of  $B_{2012}/K$  (the ratio of 2012 stock size to the unfished stock size) of 3.5%. The median estimate of  $B_{2012}/B_{msy}$  (the ratio of 2012 stock size to that at maximum sustainable yield) was reported as 7.0%.

The assessment estimated that the stock had a 99% probability of being in the PA critical zone, whereby  $B_{2012} < 0.4 * B_{msy}$ , and indicated that there was at least a 90% likelihood that the population has continued to decline since 2002, despite total catches during that period being among the lowest in the history of the fishery.

The species was recommended as “threatened” by the Committee On The Status Of Endangered Wildlife In Canada (COSEWIC) in 2006. Following consultation and review, the Government of Canada decided not to add Bocaccio to the list of wildlife species at risk. COSEWIC reassessed Bocaccio in November 2013 and recommended it as “endangered”:

[http://www.cosewic.gc.ca/rpts/detailed\\_species\\_assessments\\_e.html](http://www.cosewic.gc.ca/rpts/detailed_species_assessments_e.html).

Detailed descriptions of available information on Bocaccio biology and distribution, habitat requirements, and stock scenarios, are included in the “Updated stock assessment for Bocaccio (*Sebastes paucispinis*) in British Columbia waters for 2012” report and the 2009 “Recovery Potential Assessment of Bocaccio in British Columbia Waters”, which can both be found online on the DFO WAVES catalogue at: <http://waves-vagues.dfo-mpo.gc.ca/waves-vagues/>.

## 5.0 SOCIO-ECONOMIC AND CULTURAL IMPORTANCE

As described above, Bocaccio is a component of the catch in multiple fisheries. The “social, cultural, and economic importance” sections of the corresponding IFMPs such as groundfish and salmon describe the importance of these fisheries.

## 6.0 MANAGEMENT ISSUES

Harvests in the commercial groundfish fisheries are assumed to be the major current source of human-induced mortality. The largest proportion of the estimated catch occurs in the groundfish trawl fishery. Smaller amounts of estimated catch (groundfish hook and line, salmon troll, recreational, FSC) contribute some additional mortality. Catches in US waters from California to Washington may also have some impact on the BC population, but there is currently no means of assessing this impact.

Limited information on Bocaccio biology has meant that little is known regarding the role of any habitat limitations or predator-prey interactions in Bocaccio rebuilding. Increased seal predation, biogenic habitat loss (e.g., corals and sponges), and decreased dissolved oxygen levels have all been identified as potential threats.

## 7.0 OBJECTIVES

To support the development and achievement of objectives, DFO set out four key considerations in discussions with fishing interests that guided the rebuilding approach for Bocaccio:

1. *Conservation* – Identified in the PA Framework as the primary consideration for stocks in the critical zone.
2. *Shared responsibility* - All relevant sectors will contribute to rebuilding efforts.
3. *Long term planning* – Given current stock status, Bocaccio life history, and catch reductions already implemented, sustainable long measures are key.
4. *Adaptive management* – regular reviews of performance against objectives and targets with implementation of additional management measures to meet them if required. Objectives and targets (e.g., the mortality caps described below) may also be adjusted if required.

The primary objective of any rebuilding plan, outlined in the PA Framework, is to:

*Promote stock growth out of the critical zone ( $B > 0.4 B_{msy}$ ) by ensuring removals from all fishing sources are kept to the lowest possible level until the stock has cleared this zone. There will be no tolerance for preventable decline. This objective remains the same whether the stock is declining, stable, or increasing.*

DFO’s “Guidance for the Development of Rebuilding Plans under the Precautionary Approach Framework” specifies that a timeline and an acceptable probability for achieving the objective should be defined, and that a broader ecosystem context for rebuilding should be considered. Bocaccio’s severely depleted current status, slow growth, and long generation times all contribute to high levels of uncertainty associated with long term predictions of stock trajectory, and consequently, moderate probabilities of rebuilding the stock out of the critical zone in the near future. Taking this into account, the DFO Groundfish Management Unit has refined the primary objective described above to specify that the aim is to also:

*Achieve rebuilding throughout the species’ range and grow out of the critical zone within three generations, with a 65% probability of success.*

To support and monitor progress towards the objective, milestones have also been established:

*Achieve a positive stock trajectory trend in each 5 year interval, such that the biomass at the end of each 5 year period is greater than the biomass at the beginning of the same 5 year period. Between major assessments, progress towards this goal will be monitored by annually reviewing fishery dependent and fishery independent indices of stock trajectory.*

Once the stock has grown out of the critical zone, the standard IFMP process will be used to support the longer term objective, which is to:

*Continue stock growth into the healthy zone.*

## 8.0 MANAGEMENT MEASURES

Based on updated science information, the Department has set out a near term plan for stepped reductions of total Bocaccio harvest from the current estimated total catch mortality of 137 metric tonnes (MT) to a mortality cap of 75 MT over 3 years (2013-14 to 2015-16). The mortality cap has been broken out to identify sector-specific mortality caps (see below). This plan accounts for aboriginal fishing opportunities.

Mortality cap (MT)	Sector-specific mortality caps				
	Mortality cap after FSC	Commercial groundfish trawl	Commercial groundfish hook and line	Commercial salmon troll	Recreation
75	74	61.9	4.7	3.6	3.5

Taking into consideration advice provided by fishing interests, the Department introduced new management measures and other strategies to help achieve the catch reductions described above.

The Department is working collaboratively with all fishing interests to achieve for Bocaccio conservation and rebuilding. For the salmon troll, recreational, and FSC fisheries, the current

emphasis is on increasing awareness, given the limited data available on catch. Current work with these fisheries is focused on:

- Improving Bocaccio identification among fishers, technicians, guides, lodges, creel surveyors, and other catch monitors;
- Improving catch monitoring and reporting on Bocaccio;
- Promoting the avoidance of Bocaccio;
- Identifying and implementing the tools required to conserve Bocaccio.

Commercial groundfish fisheries are already subject to 100% at sea and dockside monitoring, which helps ensure accurate recording of all catch. Additional management measures were introduced in 2013/14 for several commercial fisheries to further support Bocaccio rebuilding. A summary of these additional measures are listed below. Please refer to licence conditions and harvest plans in the appendices of this IFMP for more details:

- Groundfish trawl: the establishment of a TAC mortality cap, individual transferable quotas for each licence holder, and licence holdings caps; continuation of the voluntary program initiated by industry whereby groundfish trawl vessel masters donate all proceeds of all landed Bocaccio for use in groundfish research programs.
- Groundfish hook and line: the establishment of reduced Bocaccio trip limits.
- Salmon troll: the establishment of Bocaccio daily limits.

Consistent with the stock assessment prioritization schedule in place for groundfish species, DFO will produce updated, peer reviewed Bocaccio stock assessments.

## **9.0 COST BENEFIT ANALYSIS**

Stock rebuilding efforts may be associated with socioeconomic costs. Due to the biological characteristics of Bocaccio, rebuilding will be a long term initiative, and may constrain opportunities to harvest healthy species, given that Bocaccio are caught as part of multi-species fisheries and when targeting other species.

The objectives and management measures developed for rebuilding Bocaccio stocks have taken into consideration the socio-economic implications of planned management measures. The timeframe for recovery and the level of catch reductions have been established to balance the priority of rebuilding Bocaccio while also allowing for fishing opportunities on healthy stocks that co-occur with Bocaccio. The rebuilding approach has been developed with input from harvest sectors to help establish this balance with the intent that the management measures can be maintained over the long time frame likely required for a meaningful recovery.

In the long term, there will be benefits for harvesters to the rebuilding of Bocaccio stocks, as healthy Bocaccio stocks will allow for the prosecution of relevant fisheries with fewer conservation constraints.

## **10.0 EVALUATION AND PERFORMANCE REVIEW**

As outlined above in section 6, one of the key considerations DFO has identified for rebuilding Bocaccio is an adaptive management approach. This approach acknowledges the need to



monitor progress against the milestones and objectives (described above) on an ongoing basis, and to adapt management where required to support rebuilding.

In the near term, the focus will be on annual reviews of performance against the catch reduction targets for 2015/16. Based on performance, the Department will consider any additional measures necessary to achieve catch reduction targets in support of stock rebuilding, as well as any adjustments to the targets themselves.

**Appendix 10: Fishing Vessel Safety**

**TABLE OF CONTENTS**

- 1. OVERVIEW – FISHNG VESSEL SAFETY .....2
- 2. IMPORTANT PRIORITIES FOR VESSEL SAFETY .....3
  - 1.2. Fishing Vessel Stability .....3
  - 1.3. Emergency Drill Requirements.....4
  - 1.4. Cold Water Immersion.....4
  - 1.5. Other Issues.....5
- 2. WORKSAFEBC.....7
- 3. FISH SAFE .....7
- 4. TRANSPORTATION SAFETY BOARD .....8

## 1. OVERVIEW – FISHING VESSEL SAFETY

Vessel owners and masters have a duty to ensure the safety of their crew and vessel. Adherence to safety regulations and good practices by owners, masters and crew of fishing vessels will help save lives, prevent vessel damage and protect the environment. All fishing vessels must be in a seaworthy condition and maintained as required by Transport Canada (TC), WorkSafeBC, and other applicable agencies. Vessels subject to inspection should ensure that the certificate of inspection is valid for the area of intended operation.

In the federal government, responsibility for shipping, navigation, and vessel safety regulations and inspections lies with Transport Canada (TC); emergency response with the Canadian Coast Guard (CCG) and DFO has responsibility for management of the fisheries resources. In B.C., WorkSafeBC also regulates health and safety issues in commercial fishing. This includes requirements to ensure the health and safety of the crew and safe operation of the vessel. DFO (Fisheries and Aquaculture Management (FAM) and CCG) and TC through an MOU have formalized cooperation to establish, maintain and promote a safety culture within the fishing industry.

Before leaving on a voyage the owner, master or operator must ensure that the fishing vessel is capable of safely making the passage. Critical factors for a safe voyage include the seaworthiness of the vessel, vessel stability, having the required safety equipment in good working order, crew training, and knowledge of current and forecasted weather conditions. As safety requirements and guidelines may change, the vessel owner, crew, and other workers must be aware of the latest legislation, policies and guidelines prior to each trip.

There are many useful tools available for ensuring a safe voyage. These include:

- Education and Training Programs
- Marine Emergency Duties
- Fish Safe - Stability Education Course
- Fish Safe – Safe on the Wheel Course
- Fish Safe – Safest Catch Program
- First Aid
- Radio Operators Course
- Fishing Masters Certificates
- Small Vessel Operators Certificate

Publications:

Transport Canada Publication TP 10038 *Small Fishing Vessel Safety Manual* (can be obtained at Transport Canada Offices from their website at:

<http://www.tc.gc.ca/eng/marinesafety/tp-tp10038-menu-548.htm>

Gearing Up for Safety – WorkSafeBC

Safe at Sea DVD Series – Fish Safe

Stability Handbook – Safe at Sea and Safest Catch – DVD Series  
Safest Catch Log Book  
Safety Quik

For further information see: [www.tc.gc.ca/eng/marinesafety/menu.htm](http://www.tc.gc.ca/eng/marinesafety/menu.htm)  
[www.fishsafebc.com](http://www.fishsafebc.com)

## 2. IMPORTANT PRIORITIES FOR VESSEL SAFETY

There are three areas of fishing vessel safety that should be considered a priority. These are: vessel stability, emergency drills, and cold water immersion.

### 22.2. Fishing Vessel Stability

Vessel stability is paramount for safety. Care must be given to the stowage and securing of all cargo, skiffs, equipment, fuel containers and supplies, and also to correct ballasting. Fish harvesters must be familiar with their vessel's centre of gravity, the effect of liquid free surfaces on stability, loose water or fish on deck, loading and unloading operations and the vessel's freeboard. Know the limitations of your vessel; if you are unsure contact a reputable naval architect, marine surveyor or the local Transport Canada Marine Safety Office.

Fishing vessel owners are required to develop detailed instructions addressing the limits of stability for each of their vessels. The instructions need to be based on a formal assessment of the vessel by a qualified naval architect and include detailed safe operation documentation kept on board the vessel. Examples of detailed documentation include engine room procedures, maintenance schedules to ensure watertight integrity, and instructions for regular practice of emergency drills.

The *Small Fishing Vessel Inspection Regulations* currently require, with certain exceptions, a full stability assessment for vessels between 15 and 150 gross tons that do not exceed 24.4 metres in length and are used in the herring or capelin fisheries. Once the proposed new *Fishing Vessel Safety Regulations* take effect, more vessels will be required to have a stability booklet.

In 2006, Transport Canada Marine Safety (TC) issued [Ship Safety Bulletin \(SSB\) 04/2006](#) ("Safety of Small Fishing Vessels: Information to Owners/Masters About Stability Booklets"), which provides a standard interpretation of the discretionary power available under Section 48 and the interim requirements prior to the implementation of the proposed *Fishing Vessel Safety Regulations*. The bulletin calls for vessels more than 15 gross tons to have a stability booklet where risk factors that negatively affect stability are present. The bulletin also suggests vessels less than 15 gross tons assess their risk factors. Every fishing vessel above 15 GRT built or converted to herring or capelin after 06 July 1977 and engaged in fishing herring or capelin must have an approved stability book. Additionally Transport Canada has published a Stability Questionnaire (SSB

04/2006), and Fishing Vessel Modifications Form which enable operators to identify the criteria which will trigger a stability assessment. A stability assessment is achieved by means of an inclining experiment, which has to be conducted by a naval architect. Please contact the nearest Transport Canada office if you need to determine whether your vessel requires one.

In 2008, TC issued [SSB 01/2008](#), which sets out a voluntary record of modifications for the benefit of owners/masters of any fishing vessels. For vessels of more than 15 gross tons, the record of modifications was to be reviewed by TC inspectors during regular inspections and entered on the vessel's inspection record. However, information gathered during the Transportation Safety Board's (TSB) Safety Issues Investigation into the fishing industry showed minimal recording of vessel modifications prior to this date.

The TSB has investigated several fishing vessel accidents since 2002 and found that vessel modifications and loading of traps have been identified as contributing factors in vessel capsizings. Such as: [M02W0102](#) - *Fritzi-Ann*, [M05W0110](#) - *Morning Sunrise*, [M07M0088](#) - *Big Sisters*, [M08W0189](#) - *Love and Anarchy*, [M09L0074](#) – *Le Marsouin I*, [M10M0014](#) - *Craig and Justin*. In 2012 two prawn fishing vessels in BC, *Jessie G* and *Pacific Siren* both capsized with prawn traps on deck and are currently under investigation.

Vessel masters are advised to carefully consider stability when transporting gear. Care must be given to the stowage and securing of all traps, cargo, skiffs, equipment, fuel containers, and supplies, and also to correct ballasting. Know the limitations of your vessel; if you are unsure contact a reputable marine surveyor or the local Transport Canada Marine Safety office.

### **22.3. Emergency Drill Requirements**

The Canada Shipping Act 2001 requires that the Authorized Representative of a Canadian Vessel shall develop procedures for the safe operation of the vessel and for dealing with emergencies. The Act also requires that crew and passengers receive safety training. The Marine Personnel Regulations require that all personnel on board required to meet the minimum safe manning levels have received MED (Marine Emergency Duties) training to an A1 or A3 level, depending on the vessel's voyage limits, within 6 months of serving aboard. MED A3 training is 8 hours in duration and is applicable to seafarers on fishing vessels less than 150 GRT that are within 25 miles from shore (NC2). MED A1 training is 19.5 hours duration and is applicable to all other fishing vessels.

MED provides a basic understanding of the hazards associated with the marine environment; the prevention of shipboard incidents; raising and reacting to alarms; fire and abandonment situations; and the skills necessary for survival and rescue.

### **22.4. Cold Water Immersion**

Drowning is the number one cause of death in B.C.'s fishing industry. Cold water is defined as water below 25 degrees Celsius, but the greatest effects occur below 15 degrees. BC waters are usually below 15 degrees. The effects of cold water on the body occur in four stages: cold shock, swimming failure, hypothermia and post-rescue collapse. Know what to do to prevent you or your crew from falling into the water and what to do if that occurs. More information is available in the WorkSafe Bulletin *Cold Water Immersion* (available from the WorkSafeBC website at [www.worksafebc.com](http://www.worksafebc.com)).

## **22.5. Other Issues**

### **22.5.1. Weather**

Vessel owners and masters are reminded of the importance of paying close attention to current weather trends and forecasts during the voyage. Marine weather information and forecasts can be obtained on VHF channels 21B, Wx1, Wx2, Wx3, or Wx4. Weather information is also available from Environment Canada website at: [http://www.weatheroffice.gc.ca/marine/index\\_e.html](http://www.weatheroffice.gc.ca/marine/index_e.html)

### **22.5.2. Emergency Radio Procedures**

Vessel owners and masters should ensure that all crew are able to activate the Search and Rescue (SAR) system early rather than later by contacting the Canadian Coast Guard (CCG). It is strongly recommended that all fish harvesters carry a registered 406 MHz Emergency Position Indicating Radio Beacon (EPIRB). These beacons should be registered with the National Search and Rescue secretariat. When activated, an EPIRB transmits a distress call that is picked up or relayed by satellites and transmitted via land earth stations to the Joint Rescue Co-ordination Centre (JRCC), which will task and co-ordinate rescue resources.

Fish harvesters should monitor VHF channel 16 or MF 2182 Khz and make themselves and their crews familiar with other radio frequencies. All crew should know how to make a distress call and should obtain their restricted operator certificate from Industry Canada. However, whenever possible, masters should contact the nearest Canadian Coast Guard (CCG) Marine Communications and Traffic Services (MCTS) station (on VHF channel 16 or MF 2182 kHz) prior to a distress situation developing. Correct radio procedures are important for communications in an emergency. Incorrect or misunderstood communications may hinder a rescue response.

Since August 1, 2003 all commercial vessels greater than 20 metres in length are required to carry a Class D VHF Digital Selective Calling (DSC) radio. A registered DSC VHF radio has the capability to alert other DSC equipped vessels in your immediate area and MCTS that your vessel is in distress. Masters should be aware that they should register their DSC radios with Industry Canada to obtain a Marine Mobile Services Identity

(MMSI) number or the automatic distress calling feature of the radio may not work. For further information see the Coast Guard website at: <http://www.ccg-gcc.gc.ca/e0003845>

A DSC radio that is connected to a GPS unit will also automatically include your vessel's current position in the distress message. More detailed information on MCTS and DSC can be obtained by contacting a local Coast Guard MCTS centre (located in Vancouver, Victoria, Prince Rupert, Comox and Tofino) or from the Coast Guard website: [www.pacific.ccg-gcc.gc.ca](http://www.pacific.ccg-gcc.gc.ca)

### 22.5.3. Collision Regulations

Fish harvesters must be knowledgeable of the *Collision Regulations* and the responsibilities between vessels where risk of collision exists. Navigation lights must be kept in good working order and must be displayed from sunset to sunrise and during all times of restricted visibility. To help reduce the potential for collision or close quarters situations which may also result in the loss of fishing gear, fish harvesters are encouraged to monitor the appropriate local Vessel Traffic Services (VTS) VHF channel, when travelling or fishing near shipping lanes or other areas frequented by large commercial vessels. Vessels required to participate in VTS include:

- every ship twenty metres or more in length,
- every ship engaged in towing or pushing any vessel or object, other than fishing gear,
- where the combined length of the ship and any vessel or object towed or pushed by the ship is forty five metres or more in length; or
- where the length of the vessel or object being towed or pushed by the ship is twenty metres or more in length.

Exceptions include:

- a ship towing or pushing inside a log booming ground,
- a pleasure yacht **less than** 30 metres in length, and
- a fishing vessel that is **less than** 24 metres in length and not **more than** 150 tons gross.

More detailed information on VTS can be obtained by calling (604) 775-8862 or from the Coast Guard website: <http://www.ccg-gcc.gc.ca/e0003901>.

### 22.5.4. Buddy System

Fish harvesters are encouraged to use the buddy system when transiting, and fishing as this allows for the ability to provide mutual aid. An

important trip consideration is the use of a sail plan which includes the particulars of the vessel, crew and voyage. The sail plan should be left with a responsible person on shore or filed with the local MCTS. After leaving port the fish harvester should contact the holder of the sail plan daily or as per another schedule. The sail plan should ensure notification to JRCC when communication is not maintained which might indicate your vessel is in distress. Be sure to cancel the sail plan upon completion of the voyage.

## 2. WORKSAFEBC

Commercial fishing is legislated by the requirements for diving, fishing and other marine operations found in Part 24 of the Occupational Health and Safety Regulation (OHSR). Many general hazard sections of the OHSR also apply. For example, Part 8: Personal Protective Clothing and Equipment addresses issues related to safety headgear, safety foot wear and personal floatation devices. Part 15 addresses issues on rigging, Part 5 addresses issues of exposure to chemical and biological substances, and Part 3 addresses training of young and new workers, first aid, and accident investigation issues. Part 3 of the Workers Compensation Act (WCA) defines the roles and responsibilities of owners, employers, supervisors and workers. The OHSR and the WCA are available from the Provincial Crown Printers or by visiting the WorkSafeBC website:

[www.worksafebc.com](http://www.worksafebc.com)

For further information, contact an Occupational Safety Officer:

Shane Neifer	Terrace	(250) 615-6640
Bruce Logan	Lower Mainland	(604) 244-6477
Wayne Tracey	Lower Mainland	(604) 232-1960
David Clarabut	Victoria	(250) 881-3469
Pat Olsen	Courtenay	(250) 334-8777
Mark Lunny	Courtenay	(250) 334-8732

or the Manager of Interest for Fishing, Mike Ross (250) 881-3419.

For information on projects related to commercial fishing contact Ellen Hanson (604) 233-4008 or Toll Free 1-888 621-7233 ext. 4008 or by email: [Ellen.Hanson@worksafebc.com](mailto:Ellen.Hanson@worksafebc.com).

## 3. FISH SAFE

Fish SAFE encourages vessel masters and crew to take ownership of fishing vessel safety. Through this industry driven and funded program, Fish SAFE provides fishing relevant tools and programs to assist fishermen in this goal. The *Fish SAFE Stability Education Course* is available to all fishermen who want to improve their understanding of stability and find practical application to their vessel's operation. The *Safe on the Wheel Course* is designed to equip crewmen



with the skills they need to safely navigate during their wheel watch. The Safest Catch Program along with fishermen-trained Safety Advisors is designed to give fishermen the tools they need to create a vessel specific safety management system.

Fish SAFE is managed by Gina McKay along with Program Coordinator, John Krgovich, Program Assistant, Dionne Riley, and fishermen Safety Advisors. All activities and program development is directed by the Fish SAFE Advisory Committee (membership is open to all interested in improving safety on board). The advisory committee meets quarterly to discuss safety issues and give direction to Fish SAFE in the development of education and tools for fishermen.

Fish SAFE also works closely with WorkSafeBC to improve the fishing injury claims process.

For further information, contact:

Gina McKay  
Program Manager  
Fish SAFE  
#2, 11771 Horseshoe Way  
Richmond, BC V7A 4V4

Phone: 604-261-9700  
Cell: 604-339-3969  
Fax: 604-275-7140  
Email: [fishsafe@fishsafebc.com](mailto:fishsafe@fishsafebc.com)  
[www.fishsafebc.com](http://www.fishsafebc.com)

#### **4. TRANSPORTATION SAFETY BOARD**

The Transportation Safety Board (TSB) is not a regulatory board. The TSB is an independent agency that investigates marine, pipeline, railway and aviation transportation occurrences to determine the underlying risks and contributing factors. Its sole aim is the advancement of transportation safety by reporting publicly through Accident Investigation Reports or Marine Safety Information Letters or Advisors. It is not the function of the Board to assign fault or determine civil or criminal liability. Under the TSB Act all information collected during an investigation is completely confidential.

In 2012, the TSB released the results of a three-year investigation into fishing safety in Canada. This report identifies 10 key factors and makes several suggestions to address the problems that persist throughout the industry.

For more information about the TSB, visit our website at [www.tsb.gc.ca](http://www.tsb.gc.ca). For information about the TSB's investigation into fishing safety, or to view a brief video, visit

<http://www.tsb.gc.ca/eng/medias-media/videos/marine/m09z0001/index.asp>.

To view a brief video about some of the issues on the TSB's recent safety Watchlist, visit: <http://www.tsb.gc.ca/eng/medias-media/photos/index.asp>.

Reporting an Occurrence - [TSB 1808 Form](#)

After a reportable occurrence happens you can fill out the TSB 1808 Form or call the TSB at the contact information below.

Glenn Budden, Investigator, Marine - Fishing Vessels  
Transportation Safety Board of Canada  
4 - 3071 No. 5 Road  
Richmond, BC, V6X 2T4  
Telephone: 604-666-2712  
Cell: 604-619-6090  
Email: glenn.budden@tsb.gc.ca

**Appendix 11: Commercial Groundfish Advisory Committee Contacts**

**TABLE OF CONTENTS**

1.	COMMERCIAL GROUND FISH ADVISORY COMMITTEE CONTACTS .....	2
1.1.	Halibut Advisory Board (HAB).....	2
1.2.	Groundfish Trawl Advisory Committee (GTAC).....	5
1.3.	Sablefish Advisory Committee (SAC).....	6
2.	COMMERCIAL INDUSTRY CAUCUS (CIC) .....	7
2.1	Groundfish Hook and Line Sub Committee (GHLSC).....	9
3.	GROUND FISH INTEGRATED ADVISORY BOARD (GIAB).....	11

## 1. COMMERCIAL GROUND FISH ADVISORY COMMITTEE CONTACTS

Department consults on a regular basis with advisory committees that represent the different sectors (Halibut, Groundfish Trawl, Sablefish and the Hook and Line fisheries). Membership includes selected licence holders representative, plus appointed members of the groundfish industry representing the full cross section of stakeholders involved in the industry (i.e. fish harvesters, processors, crewmembers, shoreworkers, coastal communities, and others). These committees meet regularly during the year to provide wide ranging advice to the Department to assist in the overall planning, management and enforcement of the each of their respective fisheries. Vessel owners and stakeholders are urged to communicate any comments or concerns to their appropriate advisory committee representatives for discussion at these meetings. The current members of each of these committees are as follows.

### 1.1. Halibut Advisory Board (HAB)

Name	Address	Phone	Email Address
Terry Henshaw, Annieville Halibut Association	9155 Hardy Road Delta, B.C. V4C 7V8	Phone (604) 581-9230 Cell (604) 341-3809 Fax (604) 581-1248	<a href="mailto:Angelinah02@hotmail.com">Angelinah02@hotmail.com</a>
John Danroth Alternate		Phone (604) 533-7028	
Lorne Iverson, B.C. Halibut Caucus	7950 Hunter Street Burnaby, B.C. V4C 7V8	Phone (604) 444-4461 Fax (604) 415-3999	<a href="mailto:lorneiverson@telus.net">lorneiverson@telus.net</a>
Alternate TBA			
Jim Nightingale	4420 Maple Lane Ladner, B.C. V4K 2Z5	Phone (604) 946-0947 Fax (604) 946-0947	<a href="mailto:jnightingale@dccnet.com">jnightingale@dccnet.com</a>
Don Roberts Alternate			
Lyle Pierce	472 Condor Street Comox, B.C. V9M 1J7	Phone (250) 339 9508 Cell (250) 897-5409 Fax (250) 339 9568	<a href="mailto:lyle_p@shaw.ca">lyle_p@shaw.ca</a>
Art Davidson Alternate	10007 Simkin Place Sidney B.C. V8L 3N5	Cell (250) 661-9619	<a href="mailto:artdavidson@telus.net">artdavidson@telus.net</a>
Alan Carl, Northern Halibut Producers Association	212 5th Ave East Prince Rupert, B.C. V8J 1R7	Phone (250) 627-7942 Fax (250) 627-7592	<a href="mailto:porchers@citytel.net">porchers@citytel.net</a>
Josh Young Alternate	RR1 S15 C87 Madeira Park, B.C. V0N 2H0	Phone (604) 883-9468 Cell (604) 885-8113	<a href="mailto:joshyoung@dccnet.com">joshyoung@dccnet.com</a>

<b>Name</b>	<b>Address</b>	<b>Phone</b>	<b>Email Address</b>
Gary Robinson, Northern Halibut Producers Assoc.			<a href="mailto:nalle@shaw.ca">nalle@shaw.ca</a>
Alternate TBA			
North Pacific Halibut Fisherman's Association, member TBA			
Alternate TBA			
Jake Vanderheide Pacific Coast Fishing Vessel Owners Guild	7395 Constitution Place Duncan, B.C. V9C 5W7	Phone (250) 709-2336 Fax (250) 709-2364	<a href="mailto:ridinglight@shaw.ca">ridinglight@shaw.ca</a>
Alternate TBA			
David Boyes Pacific Coast Fishing Vessel Owners Guild	499 Powerhouse Road Courtenay, B.C. V9N 9L1	Phone (250) 338-2188 Fax (250) 338-2183	<a href="mailto:mcboyes@telus.net">mcboyes@telus.net</a>
Ken Erikson Alternate	2378 Huband Road Courtenay, B.C. V9J 1S4	Phone (250) 338-6360	
Mike Wells Pacific Coast Fishing Vessel Owners Guild	1909 Beaufort Ave Comox, BC V9M 1S3	Phone (250) 339-3717	<a href="mailto:mcwells@shaw.ca">mcwells@shaw.ca</a>
Alternate TBA			
Herb Van Grootel, Stevenson Halibut Assoc. Association	41 - 50th Street Delta, BC V4M 2S5	Phone 604-948-2831 Fax 604-948-2741 Cell 604-328-5555	<a href="mailto:herb.vg@telus.net">herb.vg@telus.net</a>
Henry Heggelund Steveston Halibut Assoc. Alternate	Box 476 Sooke P.O. V9Z 1H4	Phone: 250-642-3316 Cell: 250-216-0395	<a href="mailto:hheggelund@shaw.ca">hheggelund@shaw.ca</a>
Gary Williamson, Wild Canadian Sablefish	4629 River Road West Delta, B.C. V4K 1R9	Phone (604) 946-6507 Fax (604) 946-6564	<a href="mailto:rivercat@telus.net">rivercat@telus.net</a>
Alternate TBA			
Doug Daugert, SFAB			<a href="mailto:kumdisisland2@yahoo.ca">kumdisisland2@yahoo.ca</a>
Gerry Kristianson, SFAB			<a href="mailto:gerrykr@telus.net">gerrykr@telus.net</a>
Chuck Ashcroft,			<a href="mailto:chuckashcroft@telus.net">chuckashcroft@telus.net</a>

Name	Address	Phone	Email Address
SFAB			
Martin Paish SFAB Alternate			<a href="mailto:martin_paish@obmg.com">martin_paish@obmg.com</a>
John McCulloch SFAB Alternate			<a href="mailto:john.mcculloch@langara.com">john.mcculloch@langara.com</a>
<b>Appointed Members</b>			
Chantelle Caron – Chair DFO Halibut Coordinator	#200-401 Burrard St. Vancouver, B.C. V6C 3S4	Phone (604) 666-0912 Fax (604) 666-8525	<a href="mailto:chantelle.caron@dfo-mpo.gc.ca">chantelle.caron@dfo-mpo.gc.ca</a>
Chuck McCarthy, Maa-nulth First Nations	PO Box 340 Port Alberni, BC V9Y 7M2	Phone (250) 745-3333 Fax (250) 745-3332	<a href="mailto:cuagain964@hotmail.com">cuagain964@hotmail.com</a>
Jim Lane, First Nations Fishery Council			<a href="mailto:Jim.Lane@nuuchahnulth.org">Jim.Lane@nuuchahnulth.org</a>
Trevor Russ, First Nations Fishery Council			Trevor.russ@haidanation.net
Blake Tipton, SM Products (B.C.) Ltd.	3827 River Road West Delta, BC V4K 3N2	Phone (604) 946-7665 Fax (604) 946-0176 Cell (604) 290-2454	<a href="mailto:Blake@Halibut.ca">Blake@Halibut.ca</a>
Alternate: Kevin Parlee, Harbour Marine Products Inc.			
Russell Cameron, UFAWU/CAW	RR1 S-6 C-9 Madeira Park, B.C. V0N 2H0	Phone (604) 740-6434	<a href="mailto:Russelljcameron@yahoo.ca">Russelljcameron@yahoo.ca</a>
Alternate: Garth Roberts	534 Evergreen Way Parksville, B.C. V9P 2B1	Phone (250) 248-2802	
Dennis Chalmers Province of B.C., Ministry of Environment, Oceans and Marine Fisheries	PO Box 9309 Stn. Prov. Govt. Victoria, BC V8W 9N1	Phone (250) 953-3401 Cell (250) 714-9887 Fax (250) 953-3401	<a href="mailto:dennis.chalmers@gov.bc.ca">dennis.chalmers@gov.bc.ca</a>
Heather Gilroy, International Pacific Halibut Commission	2320 West Commodore Way, Suite 300 Seattle, WA USA 98199-1287	Phone (206) 634-1838 Fax (206) 632-2983	<a href="mailto:heather@iphc.int">heather@iphc.int</a>
Dr. Bruce Leaman, International Pacific	2320 West Commodore Way, Suite 300	Phone (206) 634-1838 Fax (206) 632-2983	<a href="mailto:bruce@iphc.int">bruce@iphc.int</a>

Name	Address	Phone	Email Address
Halibut Commission	Seattle, WA USA 98199-1287		
Christopher Sporer, Pacific Halibut Management Association	#16046 617 Belmont Street New Westminster, BC V3M 6W6	Phone (604) 523-1528 Fax (604) 648-8737	<a href="mailto:phma@telus.net">phma@telus.net</a>

## 1.2. Groundfish Trawl Advisory Committee (GTAC)

Name	Address	Phone	Email Address
Kelly Andersen	15910 Pacific Avenue. White Rock, B.C. V4B 1T1	Phone (604) 542-2610 Fax (604) 214-2615	<a href="mailto:kelly.andersen@telus.net">kelly.andersen@telus.net</a>
Mike Buston	#205 – 7560 Vantage Way Delta, B.C. V4C 1H1	Phone (604) 940-9111 Cell (604) 817-4131 Fax (604) 940-9395	<a href="mailto:mike@aqualinesfds.com">mike@aqualinesfds.com</a>
Brian Dickens	1130 Robertson Blvd, Parksville, B.C. V9P 1Y2	Phone (250) 248-1018 Fax (250) 954-1310	<a href="mailto:bldickens@shaw.ca">bldickens@shaw.ca</a>
David Fiddler	5625 Lost Lake Road Nanaimo BC, V9T 5H1	Phone (250) 726-2976 Cell (250) 726-7936 Fax (250) 726-2886	<a href="mailto:knr.fiddler@gmail.com">knr.fiddler@gmail.com</a>
Gary Krause	1631 11 Avenue E, Prince Rupert, B.C, V8J 2X5	Phone (250) 627-1957 Fax (250) 624-3886	<a href="mailto:phantom@citytel.net">phantom@citytel.net</a>
Shannon Mann	2295 Commissioner Street Vancouver, B.C. V5L 1A4	Phone (604) 215-7909 Fax (604) 215-7878	<a href="mailto:shannonmann@marineseafoods.com">shannonmann@marineseafoods.com</a>
John Roach	1086 163A Street Surrey, B.C . V4A 8B3	Phone (604) 536-2248 Cell (604) 880-2234 Fax (604) 535-4059	<a href="mailto:jrfishing@shaw.ca">jrfishing@shaw.ca</a>
Bob Morreau	1036 208 Street Lazngley, B.C. V2Z 1T4	Phone (604) 534-1760 Fax (604) 534-2460	<a href="mailto:highline@telus.net">highline@telus.net</a>
Shawn Murray	1935 Marten Avenue, Comox, B.C. V9M 2J9	Phone (250) 339-6135 Fax (250) 339-9735 phone first	<a href="mailto:murrsha@telus.net">murrsha@telus.net</a>
Theresa Williams	Fisher Bay Seafoods 855 Hacamore Drive, Victoria, B.C. V9C 4A3	Phone (250) 478-9312 Fax (250) 478-9382	<a href="mailto:theresa.williams@shaw.ca">theresa.williams@shaw.ca</a>
Dave Dawson	Ocean Fisheries Ltd. Foot of Gore Street Vancouver, B.C. V5L 1A4	Phone (604) 726-0449 Fax (604) 681-3277	<a href="mailto:Dave.Dawson@goldseal.ca">Dave.Dawson@goldseal.ca</a>
Barry McMillan	J.S. McMillan Fisheries Ltd. 12 Orwell St, North Vancouver BC, V7J 2G1	Phone (604) 216-3040 Fax (604) 255-4600	<a href="mailto:bmcm@jsm.bc.ca">bmcm@jsm.bc.ca</a>
Jamie Robertson (Opt B Rep)	4593 River Road W Delta, B.C, V4K 1R9	Phone (604) 946-6710 Cell (778) 862-8488 Fax (604) 946-6702	<a href="mailto:madone@telus.net">madone@telus.net</a>
Tony McDermid (Opt B Rep)	101-9650 First Street Sidney, B.C. V8L 3C9	Phone (250) 654-0392 Cell (250) 213-3403 Fax (250) 656-9396	<a href="mailto:roselyn@sidneywaterfront.com">roselyn@sidneywaterfront.com</a>

Charlie Minns	Groundfish Development Authority (GDA) 356 Centennial Parkway Delta, B.C. V4L 1K7	Phone (604) 943-3320 Cell (604) 880-1425 Fax (604) 943-1166	<a href="mailto:cmimms@dccnet.com">cmimms@dccnet.com</a>
Brian Mose	Deep Sea Trawlers Association. (DSTA) 3516 Goodrich Rd Nanoose Bay, B.C. V9P 9K3	Phone (250) 752-2931 Fax (250) 752-1032	<a href="mailto:bmos@uniserve.com">bmos@uniserve.com</a>
Darrel Enger	UFAWU/CAW 1 <sup>st</sup> Floor, 326 12 <sup>th</sup> Street New Westminster, B.C.	Phone (604) 519-3639 Fax (604) 524-6944	<a href="mailto:denger@ufawu.org">denger@ufawu.org</a>
Bruce Turris	Canadian Groundfish Research and Conservation Society 333 Third St, New Westminster, BC V3L 2R8	Phone (604) 524-0005 Fax (604) 524-0150	<a href="mailto:bruce_turris@telus.net">bruce_turris@telus.net</a>
Dennis Chalmers	Province of BC, Ministry of Environment (MoE) PO. Box 9120 Stn. Prov. Gov't, Victoria B.C. V8W 9B4	Phone (250) 714-9887	<a href="mailto:Dennis.Chalmers@gov.bc.ca">Dennis.Chalmers@gov.bc.ca</a>
Fiona MacRaid (Alternate for Dennis Chalmers)	Province of BC, Ministry of Environment, (MoE) PO. Box 9120 Stn. Prov. Gov't , Victoria B.C. V8W 9B4	Phone (250) 953-3433 Fax (250) 953-3401	<a href="mailto:Fiona.MacRaid.@gov.bc.ca">Fiona.MacRaid.@gov.bc.ca</a>
Barry Ackerman DFO – Chair	Pacific Region Trawl Co-ordinator, DFO - RHQ #200-401 Burrard St. Vancouver, B.C. V6C 3S4	Phone (604) 666-3991 Cell (604) 240-9173 Fax (604) 666-8525	<a href="mailto:barry.ackerman@dfo-mpo.gc.ca">barry.ackerman@dfo-mpo.gc.ca</a>

### 1.3. Sablefish Advisory Committee (SAC)

Name	Address	Phone	Email Address
Chris Acheson (Co-Chair) – CSA Executive Director	PO Box 663, Stn. Ganges Salt Spring Island, BC V8K 2W3	Phone (250) 537-9648 Cell (250) 537-0910 Fax (250) 537-9648	<a href="mailto:Cacheson@canadiansablefish.com">Cacheson@canadiansablefish.com</a>
Chantelle Caron (Co-Chair) – DFO Sablefish Coordinator	200 -401 Burrard Street Vancouver, BC V6C 3S4	Phone (604) 666-0912 Fax (604) 666-8525	<a href="mailto:chantelle.caron@dfo-mpo.gc.ca">chantelle.caron@dfo-mpo.gc.ca</a>
Erling Olsen – CSA President	522 – 7 <sup>th</sup> Street, Unit 320 New Westminster, BC V3M 5T5	Phone (604) 271-4828 Cell (604) 329-4818	<a href="mailto:erling@leaderfishing.com">erling@leaderfishing.com</a>
Bob Fraumeni – CSA Vice President	27 Erie Street Victoria, BC V8V 1P8	Phone (250) 383-7764 Cell (250) 361-6944 Fax (250) 384-5076	<a href="mailto:rghf@fasseafood.com">rghf@fasseafood.com</a>
Tim Joys – Trap Representative	#2 – 12211 1 <sup>st</sup> Avenue Richmond, BC V7E 3M3	Phone (604) 241-9939 Cell (604) 240-5097 Fax (604) 241-7805	<a href="mailto:kuulakai@telus.net">kuulakai@telus.net</a>
Jason Olsen – Trap Representative	522 – 7 <sup>th</sup> Street, Unit 320 New Westminster, BC V3M 5T5	Phone (604) 536-0767 Cell (250) 323-4445	<a href="mailto:dolsen50@telus.net">dolsen50@telus.net</a>



<b>Name</b>	<b>Address</b>	<b>Phone</b>	<b>Email Address</b>
Blair Pearl – Longline Representative	Box 200, 3147 Beach Ave Roberts Creek, BC V0V 1G0	Phone (604) 885-3189 Cell (604) 740-7451 Fax (604) 885-4881	<a href="mailto:bpearl@dccnet.com">bpearl@dccnet.com</a>
Gary Williamson – Longline Representative	4629 River Road West Delta, BC V4K 1R9	Phone (604)946-6507 Cell (604) 341-2977 Fax (604) 946-6564	<a href="mailto:rivercat@telus.net">rivercat@telus.net</a>
Mike Derry – Trap Alternate	27 Erie Street Victoria BC V8V 1P8	Phone (250) 383-7764 Cell (250) 661-9616	<a href="mailto:mike@fasseafood.com">mike@fasseafood.com</a>
Rick Jones – Trap Alternate	Box 497 Sooke, BC V0S 1N0	Phone (250) 642-4842 Cell (250) 361-6268	<a href="mailto:bonniejones@gmail.com">bonniejones@gmail.com</a>
Tom Russell – Longline Alternate	PO Box 2382 Port hardy, BC V0N 2P0	Phone (250) 949-1871 Fax (250) 885-4881	<a href="mailto:quatsinostar@gmail.com">quatsinostar@gmail.com</a>
Neil Main – Longline Alternate	2425 Edwards Road Nanose Bay, BC V9P 9A5	Phone (250)468-5473 Cell (250) 954-9247	<a href="mailto:moondancerfishing@gmail.com">moondancerfishing@gmail.com</a>
<b>Special Advisors</b>			
Rob Kronlund – DFO Biologist	Pacific Biological Station 3190 Hammond Bay Road Nanaimo, BC	Phone (250) 756-7108 Fax (250) 756-7053	<a href="mailto:Allen.Kronlund@dfo-mpo.gc.ca">Allen.Kronlund@dfo-mpo.gc.ca</a>
Sean Cox – SFU Fisheries Science Management	8888 University Drive Burnaby, BC V5A 1S6	Phone (778) 782-5778 Fax (604) 291-4968	<a href="mailto:spcox@sfu.ca">spcox@sfu.ca</a>
Barry Ackerman – DFO Groundfish Trawl Coordinator	200 -401 Burrard Street Vancouver, BC V6C 3S4	Phone (604) 666-3991 Fax (604) 666-8525	<a href="mailto:Barry.Ackerman@dfo-mpo.gc.ca">Barry.Ackerman@dfo-mpo.gc.ca</a>
DFO Groundfish Enforcement Coordinator	200 -401 Burrard Street Vancouver, BC V6C 3S4	Phone (250) 754-0202	<a href="mailto:groundfishin@dfo-mpo.gc.ca">groundfishin@dfo-mpo.gc.ca</a>
Brian Mose – Trawl Advisor	3516 Goodrich Rd Nanose Bay, B.C. V9P 9K3	Phone (250) 752-2931 Fax (250) 752-1032	<a href="mailto:bmose@uniserve.com">bmose@uniserve.com</a>
Chris Heras – Processing Representative	2115 Commissioner Street Vancouver, BC V5L 1A6	Phone (604) 738-5545 Cell (604) 216-0395 Fax (604) 738-5541	<a href="mailto:Chris_wws@telus.net">Chris_wws@telus.net</a>

## 2. COMMERCIAL INDUSTRY CAUCUS (CIC)

The groundfish commercial industry in conjunction with Fisheries and Oceans Canada and the Province of British Columbia established an advisory committee called the “Commercial Industry Caucus (CIC)” to discuss and formulate advice on issues that cross all commercial sectors in the development and implementation of the integrated commercial groundfish fishery. Members of CIC are selected by each of the DFO Groundfish Advisory Committees and fishing sectors to represent that sectors interests. The general mandate of CIC is provide a forum for open discussion in the development of consensus advice on reforms to the Groundfish IFMP including in season management actions. Members of CIC are as follows:

<b>Name</b>	<b>Address</b>	<b>Phone</b>	<b>Email Address</b>
Michael Renwick Appointed (Dogfish)	7963 Webster Road Delta, B.C. V4G 1E4	Phone (604) 952-4333 Fax (604) 952-4234 Cell-604-916-8432	<a href="mailto:mrenwick@telus.net">mrenwick@telus.net</a>
Dave Dawson Trawl (Processor)	2305 Commissioner Street, Vancouver, BC V5L 1A4	Bus. Phone 604-254-5751 Cell 604-776-0449?	<a href="mailto:dave.dawson@goldseal.ca">dave.dawson@goldseal.ca</a>
Dan Edwards Appointed (UFAWU)	P.O. Box 469 Ucluelet, B.C. V0R 3A0	Phone (250) 726-4316 Fax (250) 726-2374	<a href="mailto:danedwards@telus.net">danedwards@telus.net</a>
Eric Carlson (Inside ZN)	Box 150 Onoway, Alberta T0E 1V0	Phone 780-914-2803 Fax (780) 967-2774	<a href="mailto:sunridge@connect.ab.ca">sunridge@connect.ab.ca</a>
Herb Van Grootel (Outside ZN)	41 – 50 <sup>th</sup> Street Delta, B.C. V4M 2S5	Phone (604) 948-2831 Fax (604) 948-2741 Cell 604-328-5555	<a href="mailto:herb.vg@telus.net">herb.vg@telus.net</a>
Dave Renwall (Outside ZN)	P.O. Box 1572 Port Hardy B.C. V0N 2P0	Phone (250) 902-2235	<a href="mailto:reefraider1@gmail.com">reefraider1@gmail.com</a>
Jake Vanderheide (Halibut)	7395 Constitution Place Duncan, B.C. V9L 5W7	Phone (250) 709-2336 Fax (250) 709-2364	<a href="mailto:ridinglight@shaw.ca">ridinglight@shaw.ca</a>
David Boyes (Halibut)	499 Powerhouse Road Courtenay, B.C. V9N 9L1	Phone (250) 338-2188 Fax (250) 338-2183 Cell 250-703-1498	<a href="mailto:mcboyes@telus.net">mcboyes@telus.net</a>
Lyle Pierce (Halibut)	472 Condor Comox B.C. V9M 1J7	Phone (250) 339 9508 Fax (250) 339 9568 Cell 250-897-5409	<a href="mailto:l_pierce@shaw.ca">l_pierce@shaw.ca</a>
Walter Lancashire (Lingcod)	1450 Nursery Road Campbell River, B.C. V9W 4V5	Phone (250) 287-9229 Fax (250) 287-9202 Cell 250- 230-4122	<a href="mailto:walterlancashire@hotmail.com">walterlancashire@hotmail.com</a>
Chris Acheson (Sablefish)	209 Arbutus Rd., Saltspring Island V8K 2W3	Cell 250-537-9649	<a href="mailto:cacheson@canadiansablefish.com">cacheson@canadiansablefish.com</a>
Leslie Budden (Sablefish)		Cell 604-328-7835	<a href="mailto:lbudden@canadiansablefish.com">lbudden@canadiansablefish.com</a>
Bob Fraumeni (Sablefish)		250 361-6944	<a href="mailto:rghf@fasseafood.com">rghf@fasseafood.com</a>
Tim Joys (Sablefish Alternate)		604 240-5097	<a href="mailto:timjoys43@gmail.com">timjoys43@gmail.com</a>
Doug Mavin (ZN Outside)		604-485-3522	<a href="mailto:dmavin@shaw.ca">dmavin@shaw.ca</a>
Bob Burkosky (Lingcod Alternate)	1466 Memory Lane Qualicum Beach, BC V9K 2A9	Phone 250 752-5247 Cell 250 954-9293	<a href="mailto:rpburkos@shaw.ca">rpburkos@shaw.ca</a>
Alvin Hui (Inside ZN)	(secretary Sandra)	Phone 604-689-1608 Cell 604-732-3898	<a href="mailto:tiarafisheries@hotmail.com">tiarafisheries@hotmail.com</a>

Name	Address	Phone	Email Address
Kevin Woodburn (Sablefish Alternate)		250 228-1420	karenwoodburn@shaw.ca
Brian Mose (Trawl GTAC)	Deep Sea Trawlers Association (DSTA)  3516 Goodrich Rd Nanoose Bay, BC V9P 9K8	Phone 250-468-7035 250-468-5974 Fax (250) 752-1032	<a href="mailto:bmose@uniserve.com">bmose@uniserve.com</a>
Bruce Turris (Trawl GTAC)	Canadian Groundfish and Research Conservation Society 333 Third Street New Westminster, B.C. V3L 2R8	Phone (604) 524-0005 Fax (604) 524-0150 Cell 604-524-0005	<a href="mailto:bruce_turris@telus.net">bruce_turris@telus.net</a>
Sandy Argue (Province of BC)	Province of B.C., Ministry of Environment, (MoE) PO. Box 9120 Stn Prov Gov't Victoria B.C. V8W 9B4	Phone (250) 472-0475 Fax (250) 356-0358	<a href="mailto:Sandy.Argue@argusbioresources.ca">Sandy.Argue@argusbioresources.ca</a>
Alternate: Dennis Chalmers (Province of BC)	Province of B.C., Ministry of Environment P.O. Box 9120 Stn, Provincial Government Victoria, B.C. V8W 9B4 100 Galiano Place, Nanaimo BC	Phone (250)753-7350	<a href="mailto:Dennis.Chalmers@gov.bc.ca">Dennis.Chalmers@gov.bc.ca</a>
Blake Tipton (H&L Processors)	SM Products Ltd., 3827 River Rd. West, Delta BC V4K 3N2	604-946-7665	<a href="mailto:blake@halibut.ca">blake@halibut.ca</a>
Neil Davis (Groundfish Management Unit)	A/Groundfish Resource Manager, Fisheries and Oceans Canada 200 – 401 Burrard Street Vancouver, BC V6C 3S4	604 666-9033	<a href="mailto:Neil.Davis@dfo-mpo.gc.ca">Neil.Davis@dfo-mpo.gc.ca</a>

## 2.1 Groundfish Hook and Line Sub Committee (GHLSC)

The Groundfish Hook & Line Sub-committee (GHLSC) is a forum for providing advice, and for communicating information and concerns, to Fisheries and Oceans Canada (DFO, the Department) on management and policy issues relating to the Lingcod, Dogfish and Rockfish (inside and outside) commercial fisheries in the Pacific Region. Advice will be forwarded directly to the Department on matters specific to the Lingcod, Dogfish and Rockfish fisheries and via the Commercial Industry Caucus (CIC) for matters that are inter-sectoral. This advice will be taken into consideration by the Minister to assist in the overall planning, management and enforcement of these fisheries. The Groundfish Hook and Line Sub-committee will serve as the forum for disseminating information from the Department back to the industry.

<b>Name</b>	<b>Address</b>	<b>Phone</b>	<b>Email Address</b>
Eric Carlson (Inside ZN)	P.O. Box 150 Onoway, Alberta T0E 1V0	Phone (780) 967-5266 Fax (780) 967-2774	<a href="mailto:sunridge@connect.ab.ca">sunridge@connect.ab.ca</a>
Alvin Hui (Inside ZN)	1606 Hornby Street Vancouver, BC V6Z 2T4	Phone (604) 689-1608 Fax (604) 739-2821	<a href="mailto:tiarafisheries@hotmail.com">tiarafisheries@hotmail.com</a>
Gary Williamson (ZN Outside)	4629 River Road West Delta, B.C. V4K 1R9	Phone (604) 946-6507 Fax (604) 946-6564	<a href="mailto:rivercat@telus.net">rivercat@telus.net</a>
Jim Nightingale (ZN Outside)	4420 Maple Lane Ladner, B.C. V4K 2Z5	Phone (604) 946-0947 Fax (604) 946-0947	<a href="mailto:jninghtingale@dccnet.com">jninghtingale@dccnet.com</a>
Art Davidson (ZN Outside)	1305 Readings Drive Sydney, BC V8L 5K7	Phone (250) 655-1446 Cell (250) 661-9619	<a href="mailto:artdavidson@telus.net">artdavidson@telus.net</a>
Henry Heggelund (Outside ZN)	P.O. Box 476 Sooke, B.C. V9Z 1H4	Phone (250) 642-3316 Fax (250) 642-3076	<a href="mailto:hheggelund@shaw.ca">hheggelund@shaw.ca</a>
Terry Henshaw (Outside ZN)	9155 Hardy Road Delta B.C V4C 7V8	Phone (604) 581-9230 Cell (604) 341-3809 Fax (604) 581-1248	<a href="mailto:Angelinah02@hotmail.com">Angelinah02@hotmail.com</a>
Walter Lancashire - Appointed (Lingcod)	1450 Nursery Road Campbell River, B.C. V9W 4V5	Phone (250) 287-9229 Fax (250) 287-9202	<a href="mailto:walterlancashire@hotmail.com">walterlancashire@hotmail.com</a>
Dave Renwall (Outside ZN)	8465 Founders Road Port Hardy, B.C V0N 2P0	Phone (250) 902-2235	<a href="mailto:reefraider1@gmail.com">reefraider1@gmail.com</a>
Michael Renwick - Appointed (Dogfish)	7963 Webster Road Delta, B.C. V4G 1E4	Phone (604) 952-4333 Fax (604) 952-4234	<a href="mailto:mrenwick@telus.net">mrenwick@telus.net</a>
Bob Burkosky -Appointed (Lingcod)	1466 Memory Lane Qualicum Beach, BC V9K 2A9	Phone (250) 752-5247	<a href="mailto:rburkos@shaw.ca">rburkos@shaw.ca</a>
Herb Van Grootel (Outside ZN)	41 - 50 <sup>th</sup> Street Delta, B.C. V4M 2S5	Phone (604) 948-2831 Fax (604) 948-2741	<a href="mailto:herb.vg@telus.net">herb.vg@telus.net</a>
David Beggs (ZN Outside)			<a href="mailto:moonglow2@shaw.ca">moonglow2@shaw.ca</a>
Rob Tadey DFO Chair	Hook and Line Co-ordinator DFO - RHQ #200-401 Burrard St Vancouver, B.C. V6C 3S4	Phone (604) 666-3279 Fax (604) 666-8525	<a href="mailto:robert.tadey@dfo-mpo.gc.ca">robert.tadey@dfo-mpo.gc.ca</a>

### 3. GROUND FISH INTEGRATED ADVISORY BOARD (GIAB)

Following initial discussions with interested sectors and resource users, the Groundfish Management Unit, Fisheries and Oceans Canada convened a Working Group in early 2009 to develop a draft terms of reference for an integrated advisory board for all groundfish interests. The Terms of Reference have now been finalized and are available at: <http://www.pac.dfo-mpo.gc.ca/consultation/fisheries-peche/ground-fond/giab-ccipf/index-eng.htm>. This new structure is intended to support Fisheries and Oceans Canada's commitment to taking a more integrated and cooperative approach to addressing a wide range of issues in the management of the groundfish fisheries in BC, and contribute to sustainable commercial, recreational and ceremonial fisheries. The members of this advisory board are as follows:

<b>Name</b>	<b>Interests</b>	<b>E-mail Address</b>
Des Nobels <i>Skeena Queen Charlotte Regional District</i>	Coastal Communities	<a href="mailto:dnobels@citytel.net">dnobels@citytel.net</a>
Dario Corlazzoli <i>Councillor of Ucluelet</i>	Coastal Communities	<a href="mailto:cb1@ukeecable.net">cb1@ukeecable.net</a>
Bill Irving <i>Mayor of Ucluelet</i>	Coastal Communities	<a href="mailto:birving@ucluelet.ca">birving@ucluelet.ca</a>
Neil Smith (Alternate) <i>Regional District of Mount Waddington</i>	Coastal Communities	<a href="mailto:nsmith@rdmw.bc.ca">nsmith@rdmw.bc.ca</a>
Mike Renwick	Commercial (Dogfish)	<a href="mailto:mrenwick@telus.net">mrenwick@telus.net</a>
Dan Edwards (Alternate)	Commercial (Dogfish)	<a href="mailto:danedwards@telus.net">danedwards@telus.net</a>
Jake Van Der Heide	Commercial (Halibut)	<a href="mailto:ridinglight@shaw.ca">ridinglight@shaw.ca</a>
Chris Sporer (Alternate)	Commercial (Halibut)	<a href="mailto:phma@citytel.net">phma@citytel.net</a>
Walter Lancashire	Commercial (Lingcod)	<a href="mailto:walterlancashire@hotmail.com">walterlancashire@hotmail.com</a>
Bob Burkosky (Alternative)	Commercial (Lingcod)	<a href="mailto:rpburkos@shaw.ca">rpburkos@shaw.ca</a>
David Dawson	Commercial (Processor)	<a href="mailto:Dave.Dawson@goldseal.ca">Dave.Dawson@goldseal.ca</a>
Blake Tipton (Alternate)	Commercial (Processor)	<a href="mailto:blake@halibut.ca">blake@halibut.ca</a>
Herb van Grootel (Alternate)	Commercial (Rockfish)	<a href="mailto:herb.vg@telus.net">herb.vg@telus.net</a>
Chris Acheson (Alternate)	Commercial (Sablefish)	<a href="mailto:pacpro@telus.net">pacpro@telus.net</a>
Bruce Turriss	Commercial (Trawl)	<a href="mailto:Bruce_Turriss@telus.net">Bruce_Turriss@telus.net</a>
Brian Mose (Alternate)	Commercial (Trawl)	<a href="mailto:bmoser@uniserve.com">bmoser@uniserve.com</a>
Ernie Cooper World Wildlife Fund	Environmental	<a href="mailto:ecooper@wwfcanada.org">ecooper@wwfcanada.org</a>

<b>Name</b>	<b>Interests</b>	<b>E-mail Address</b>
Scott Wallace, David Suzuki Foundation	Environmental	<a href="mailto:swallace@davidsuzuki.org">swallace@davidsuzuki.org</a>
Will Soltau	Environmental	<a href="mailto:wsoltau@livingoceans.org">wsoltau@livingoceans.org</a>
Terry Glavin (Alternate) Watershed Watch Salmon Society	Environmental	<a href="mailto:terry.glavin@gmail.com">terry.glavin@gmail.com</a>
Chuck McCarthy Nuu-Chah-Nulth Tribal Council	First Nations	<a href="mailto:cuagain964@hotmail.com">cuagain964@hotmail.com</a>
Jim Lane (Alternate) Nuu-Chah-Nulth Tribal Council	First Nations	<a href="mailto:Jim.Lane@nuuchahnulth.org">Jim.Lane@nuuchahnulth.org</a>
Russ Jones Haida First Nation	First Nations	<a href="mailto:russ.jones@haidanation.net">russ.jones@haidanation.net</a>
Shawn Cowpar (Alternate) Haida First Nation	First Nations	<a href="mailto:Shawn.cowpar@haidanation.net">Shawn.cowpar@haidanation.net</a>
Alice Cheung - Chair	Fisheries and Oceans Canada	<a href="mailto:Alice.Cheung@dfo-mpo.gc.ca">Alice.Cheung@dfo-mpo.gc.ca</a> ;
Neil Davis Groundfish Management	Fisheries and Oceans Canada	<a href="mailto:Neil.Davis@dfo-mpo.gc.ca">Neil.Davis@dfo-mpo.gc.ca</a>
Greg Workman Groundfish Science	Fisheries and Oceans Canada	<a href="mailto:Greg.workman@dfo-mpo.gc.ca">Greg.workman@dfo-mpo.gc.ca</a>
Irvin Figg	Labour	<a href="mailto:ifigg@ufawu.org">ifigg@ufawu.org</a>
Darrell Enger (Alternate) UFAWU	Labour	<a href="mailto:denger@ufawu.org">denger@ufawu.org</a>
Dennis Chalmers	Province	<a href="mailto:dennis.chalmers@gov.bc.ca">dennis.chalmers@gov.bc.ca</a>
Gerry Kristianson SFAB	Recreational	<a href="mailto:gerrykr@telus.net">gerrykr@telus.net</a>
Chuck Ashcroft SFAB	Recreational	<a href="mailto:chuckashcroft@telus.net">chuckashcroft@telus.net</a>
Martin Paish SFAB	Recreational	<a href="mailto:martin_paish@obmg.com">martin_paish@obmg.com</a>
Wayne Harling SFAB Alternate	Recreational	<a href="mailto:harling@island.net">harling@island.net</a>

**Appendix 12:** Fishing Hazards Advisory

**TABLE OF CONTENTS**

1. NEPTUNE CANADA NETWORK, WEST COAST VANCOUVER ISLAND.....2

## 1. NEPTUNE CANADA NETWORK, WEST COAST VANCOUVER ISLAND

NEPTUNE Canada's fibre optic ocean observatory network is deployed on the seafloor in the waters off the West Coast of Vancouver Island. The area involved is in the rectangular area bounded by 48 deg 40' N, 129 deg 10' W; 47 deg 40'N, 125 deg 16'W. The system layout is outlined in the included figure.

PLEASE BE AWARE that although we have made substantial efforts to bury the majority of the backbone cable and two 10 km heavy extension cables from the node at Barkley Canyon, **there remains some exposure** in Folger Passage and Barkley Canyon areas. In addition, the instruments are primarily located on the surface of the seafloor and are at high risk from trawling. New this year, deployed in 400 m of water, is a suite of instruments on the seafloor with a winched profiler extending from the seafloor that breaches the sea surface and thus is at substantially higher risk. The winched profiler is centred at 48°25.6424' N and 126°10.4476' W in 396 m of water. **Please avoid fishing in these areas** and refer to the CD previously distributed with coordinates, navigation files, and charts, and take particular caution when in the red regions marked in the map on Figure 1. If you have not received a CD in the past, please contact us at [neptune@uvic.ca](mailto:neptune@uvic.ca) and we will provide you with one. Alternatively, navigation files may be obtained through our website listed below.

NEPTUNE Canada provides real-time data to people all over the world who influence public policy decisions, science, and public outreach. Benefits such as an advanced tsunami warning system, better understanding and recording of earthquakes, understanding ocean changes including spring phytoplankton blooms, oxygen levels, and trends in hypoxia highlight just a few of the potentials of this array. Real time data and more information, including notices to mariners, can be obtained on our website at [www.neptunecanada.ca](http://www.neptunecanada.ca). We appreciate your support and cooperation in making this platform a success through its 25-year design life.



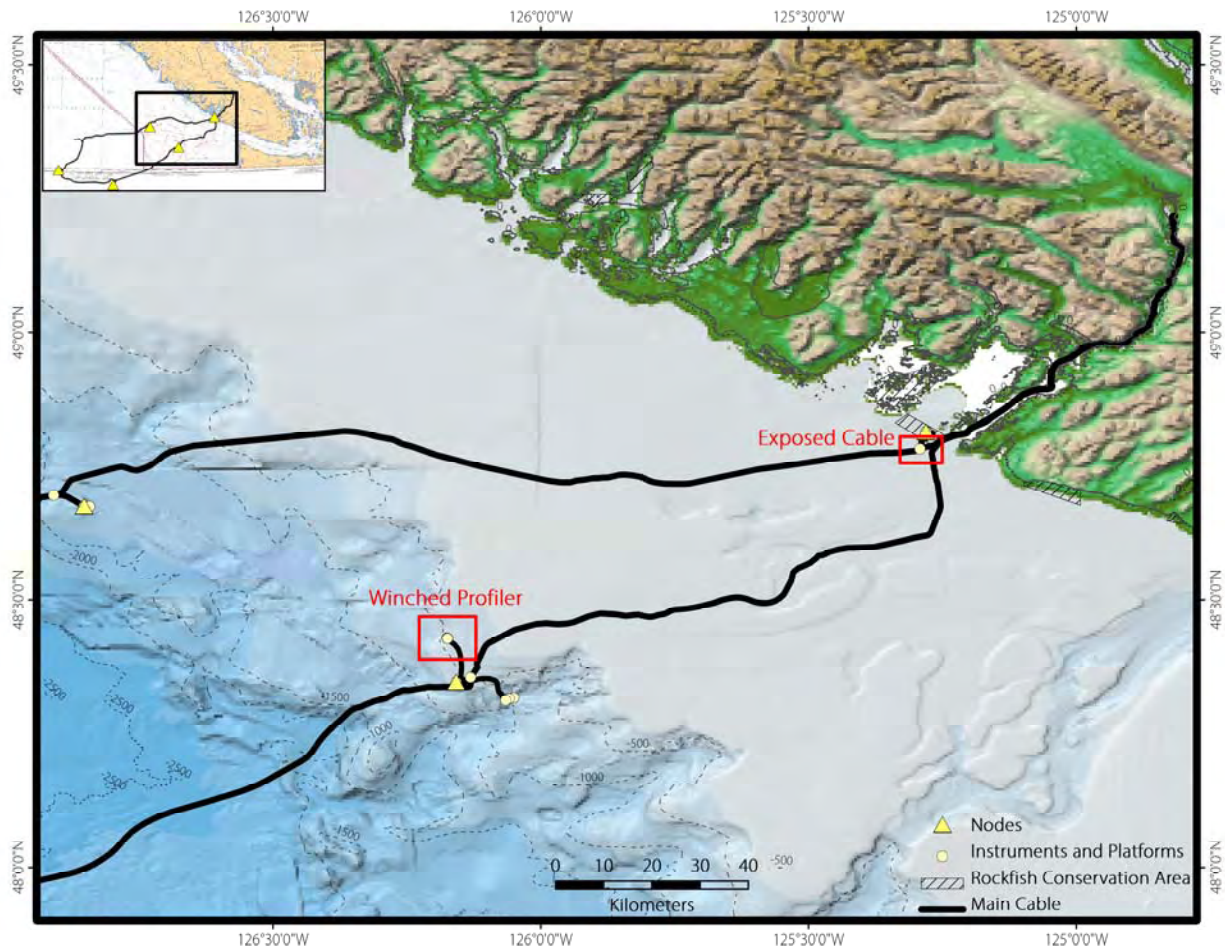


Figure 1. NEPTUNE Canada cables and instruments along continental shelf, slope, and rise. Extreme caution should be exercised in areas indicated with a red box. Note cable width and instruments are not drawn to scale. (Basemap: Ryan et al., 2009)