ECOLOGICAL BASELINE DATASET CATALOGUE

Prepared for the

Ecosystem Based Management Working Group

Prepared by

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Disclaimer

This report was commissioned by the Ecosystem-Based Management Working Group (EBM WG) to provide information to support full implementation of EBM. The conclusions and recommendations in this report are exclusively the authors', and may not reflect the values and opinions of EBM WG members.

ABSTRACT

This document reports the actions and work done to compile and catalogue data to support EBM projects and to collect broader EBM information relevant to the British Columbia central and north coast, as an effort to facilitate the sharing of GIS references and publications among EBMWG members, research teams and specific projects.

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1. Introduction

Governmental and commercial geographical warehouses, such as the Integrated Land Management Bureau (ILBM) Discovery Service, MapPlace, MapPlace2Go, and Mapster have internet-based GIS applications that provide access to existing ecological databases. For the Environmental Base Management Group (EBMWG) however, relevant data and information are widely spread and sometimes their existence and whereabouts are unknown.

In order to satisfy data requirements within the EBMWG, the working group has started to gather and house the available ecological information and facilitate the sharing of GIS references and publications among EBMWG members, research teams and specific projects. This work aims to compile and catalogue the data to support EBM projects and to collect broader EBM information relevant to the British Columbia central and north coast.

This document reports the actions and work done to achieve the main aims. Section two describes the gap in knowledge on spatial coverage of focal species. Section three describes the building of a bibliographic reference catalogue. Section fourth describes the collection and extraction of relevant information from thematic map reports. Finally, conclusion and recommendations are drawn. Several appendices are attached contained the generated information. Accompanying to this report is a compact disk containing the data compiled throughout the project. A similar copy is available at the EBMWG FTP-server

ftp://ftpnan.env.gov.bc.ca/pub/outgoing/dist/Coast_Implementation/EBM_WG/Data/pv/CD

2. Wildlife dataset cross-reference

The first task to perform in this project is to cross reference EBMWG focal species data (DSP June 2007), available at the FTP-server (ftpnan.env.gov.bc.ca), against the Focal species inventory summary, updated by Gordon and Donald (Gordon & Donald, 2008), to generate a list of landscape units that have complete up-to-date coverage of focal species data.

Cross referencing is performed at British Columbia (BC) coastal landscape unit level. A total of 149 coastal landscape units were identified from information exhibit on the Central Coast Land and Coastal Resource Management Plan (CCLCRMP) (Ministry of Sustainable Resource Management, 2001) and the North Coast Land Resource Management Plan (LRMP-Map 5) (Ministry of Sustainable Resource Management, 2004), as shown in Figure 1 and listed in Table 1. Landscape units for the BC North and Central Coast have being defined and legally recognised. However, landscape units on the BC South Central Coast are in the process of legal recognition, and are used for information purposes only. Table 1 lists landscape units within coastal planning units

Cross referencing is executed by intersecting focal species thematic maps (shapefiles) with BC coastal landscape unit thematic map. Thus attributes from the landscape unit thematic map are transferred to the focal species thematic map. As a result, each polygon /point /or polyline in the focal species thematic map is associated to a BC coastal landscape unit. The cross referencing is limited to the presence (1) / absence (-999) of focal species information at coastal landscape unit. It does not intent to demonstrate the type of data available (e.g. surveyed, modelled), nor specify the type of information available (i.e. map attributes). These latter are described in § 4. Cross reference results can be found in Appendix A.

Throughout this process ArcView 3.2 is employed as the geographic (GIS) application to perform this spatial association. Original geographical file projection (BC-Albers) and map attributes are maintained. This work summarises and indicates the availability of information (labelled as 1's) on focal species at landscape unit level.

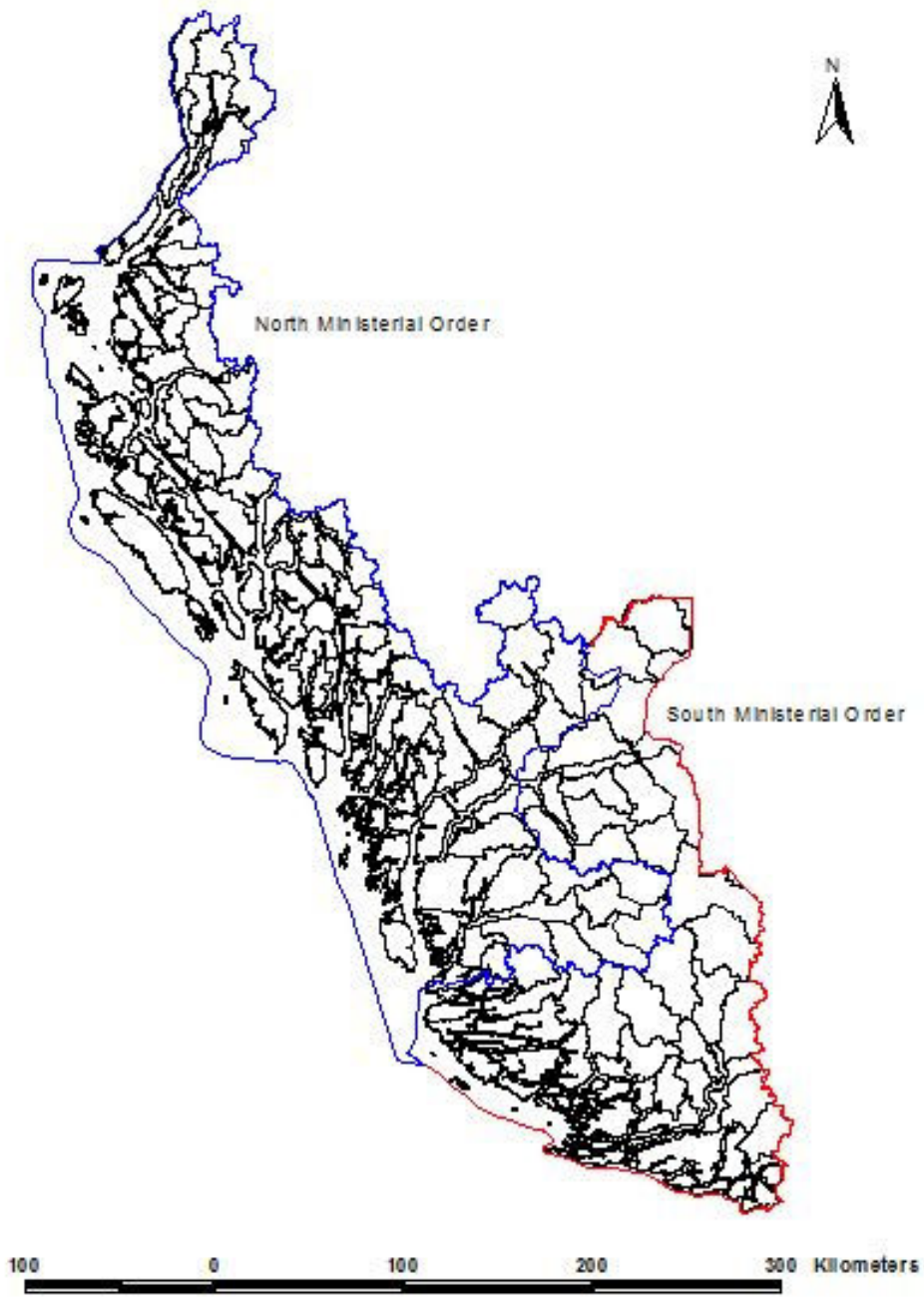

Figure 1 British Columbia coastal landscape units within North and South ministerial order boundaries

Table 1 British Columbia coastal landscape units

North Coast		South Coast					
1	Anyox	N1	Chapple	N12	Ape	S10	Estero
2	Aristazabal		Helmcken		Bella Coola		Fulmore
3	Banks		Laredo		Nusatsum		Gray
4	Belle Bay		Surf		Saloompt		Thurlow
5	Big Falls	N2	Aaltanhash		Talchako/Gyllenspetz	S11	Phillips
6	Bishop (DNC)		Butedale	N13	Calvert		Stafford
7	Brown		Green	N14	Chukwalla/Kibella		
8	Campania		Khutze		Doos/Dallery		
9	Captain		Klekane		Kilippi		
10	Chambers		Kynoch		Machmell		
11	Crab		Sheep Passage		Neechanz		
12	Dundas		Tolmie		Owikeno		
13	Gil		Whalen	N15	Sheemahant		
14	Gribbell	N3	Price		Sumquolt		
15	Hartley		Roderick		Washwash		
16	Hawkes South		Swindle	N16	Draney		
17	Hevenor	N4	Don Peninsula		Fish Egg		
18	Johnston (DNC)		Ellerslie		Johnston (DMC)		
19	Kainen		Roscoe		Nekite		
20	Khtada		Yeo	S1	Draney		
21	Khutzeymateen	N5	Braden		Nekite		
22	Khyex		King Island		Smith Sound		
23	Kiltuish		Labouchere		Smokehouse		
24	Kitkiata		Nascall	S2	Lower Kingcome		
25	Kitsault	N6	Dean		Seymour		
26	Kshwan		Jump Acrross		Upper Kingcome		
27	Kumealon		Lower Kimsquit		Wakeman		
28	Kwinamass		Sutslem/Skowquiltz	S3	Franklin		
29	Kwinamuck		Upper Kimsquit		Klinkaklini Glacier		
30	Marmot (DNC)	N7	Atnarko		Lower Klinaklini		
31	McCauley		Crag		Sim		
32	Monckton		Nechako	S4	Middle Klinaklini		
33	Observatory East		Sigulat		Upper Klinaklini		
34	Observatory West		Young	S5	Allison		
35	Olh	N8	Outer Coast Islands		Belize		
36	Pa'aat	N9	Denny		Huaskin		
37	Pearse		Evans		Walker		
38	Porcher		Hunter	S6	Charles		
39	Quottoon	N10	Clyak		Miriam		
40	Red Bluff		Kwatna/Quatlena		Snowdrift		
41	Scotia		Nootum/Koeye	S7	Broughton		
42	Skeena Islands		Twin		Gilford		
43	Somerville	N11	Clayton	S8	Ahnuhati-Kwalate		
44	Sparkling		Smitley/Noeick		Ahta		
45	Stagoo		South Bentinck		Kakweiken		
46	Stephens		Taleomey/Asseek	S9	Knight East		
47	Triumph				Lull-Sallie		
48	Trutch						
49	Tuck						
50	Union						

3. Ecological inventory catalogue

As well known by EBMWG members, large amounts of ecological information for the BC coast are available on the EBMWG FTP-server, as well as on other Canadian geographical warehouses, such as the Integrated Land Management Bureau (ILBM) Discovery Service, MapPlace, and iMap. The objective of this project is to catalogue the available information in an effort to facilitate the sharing of GIS references and publications among EBM-WG members, EBM research groups and projects.

An initial attempt to catalogue the information has being done by John Sunde, who created an Excel spreadsheet (EBM/detailed Strategic Planning) containing information of thematic maps available on the FTP server. Because of the nature these Excel spreadsheets and in order not to create large and unhandy documents, the information contained in this spreadsheet is limited.

A well organized bibliography is a powerful instrument (Aigaion, 2008). The bibliographic catalogue needs to be available to anyone with a minimum effort and resources, plus the database needs to be kept up-to-date. Although commercial reference managers (e.g. EndNote, Reference Manager) and open source applications (e.g. Zotero, BibDesk and JabRefer) are available, the decision on which reference manager to use should take in account the costs involved in software set up for a specific computer operational system, and the software flexibility to customize according to user necessity.

For this project, it was therefore decided to use a well documented open source bibliography reference manager named JabRef (Alver *et al.*, 2008). The native file format used by JabRef is BibTeX, the standard LaTeX bibliography format. JabRef runs on Java VM (version 1.4.2 or greater), and should work equally well on Windows, Linux and Mac OS X (JabRef). Thus, making certain that anyone can use it with zero cost, minimum computer resources and easy software customization. Detailed information on JabRef reference manager can be found at:

http://jabref.sourceforge.net

Throughout this project a bibliographic catalogue listing BC coastal ecological information was created (Figure 2). It contains searchable keywords, links to original documents (e.g. doc, xls, pdf), reports and GIS maps. The bibliographic reference of documents and thematic maps compiled so far can be found in Appendix B.

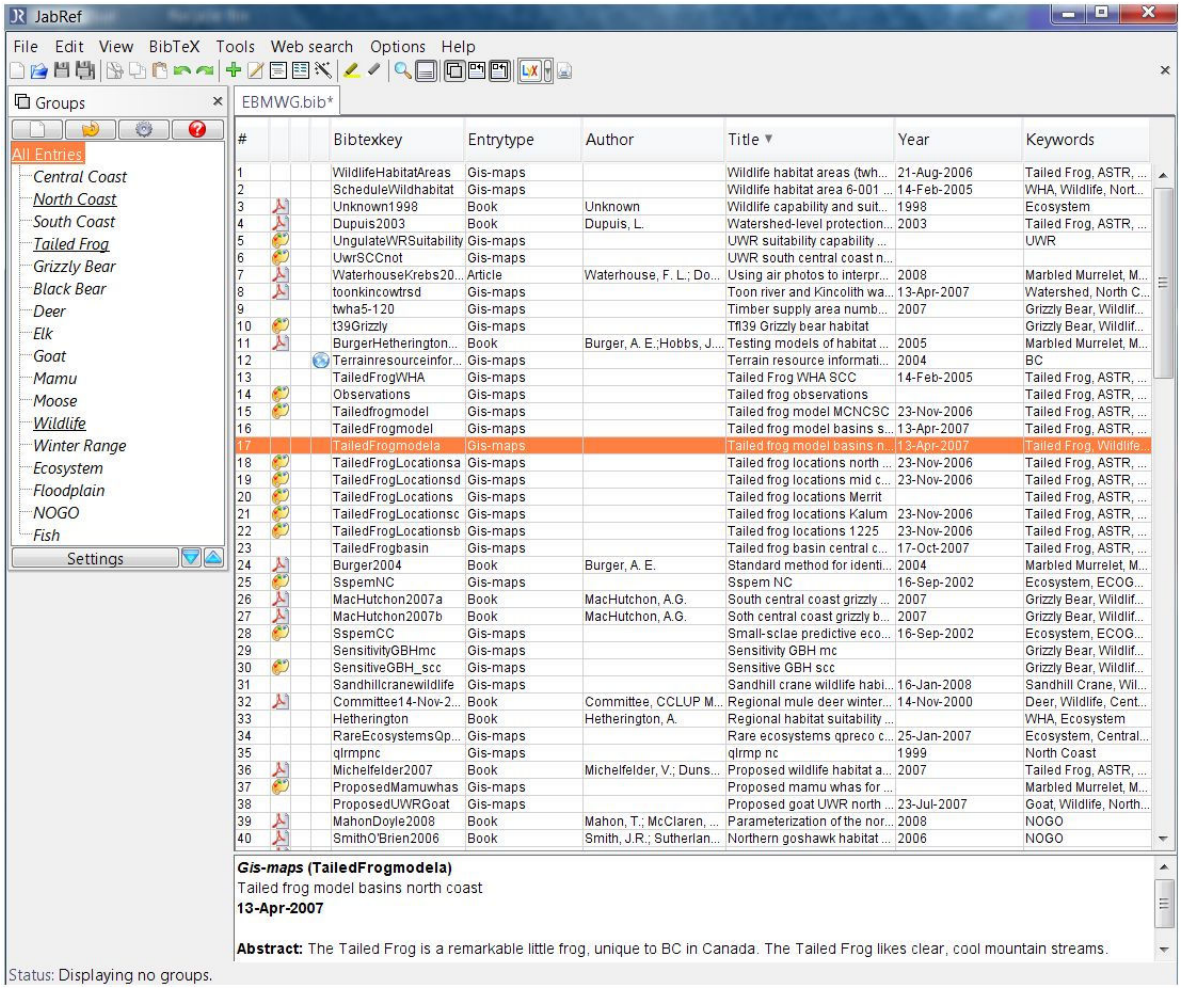

Figure 2 JabRef reference manager main window

4. Detailed ecological information

In this part of the project, work was focused on getting detailed information on ecological dataset identified as priority by the Co-location modelling to inform old growth reserve selection project (DS04 Project) in coordination with Hanna Horn. Initially, already available vector thematic vector maps were displayed for black bear, deer, fish, goat, grizzly bear, marbled murrelet, moose, north goshawk and tailed frog and attribute

variables were extracted. This created a data dictionary that will help us understand the attribute mnemonic labels used in the thematic map.

The data dictionary lists the compressed filename (*. zip), the shapefile name (thematic arc- or shape-file), the location in the archive, the variable attribute label as seen in GIS, the attribute name, the type of data, the data units, a short description, and the information source.

In the next step the reports that should accompany each of the thematic maps were collected. For this, several expert biologists were contacted, and information relating to their respective field of expertise requested. Unfortunately, only few reports were collected, as thematic maps are shared in the format of digital copies among users, while associated reports seem to be hardly shared at all. Not all thematic maps available in the EBMWG FTP-server have a formal report. Some maps have a description of how different information was overlay to generate a new dataset (e.g. Engels, 2007), or two reports with similar title but different authors and years are available (e.g. AXYS, 2005; Pollard & Keim, 2006).

Finally, the available reports were studied and associated to a thematic map. Also information related to data source, applied models, habitat ratings, model assumptions, model validation and comments were extracted and a summary report written. At the same time map data dictionary tables were fill out. This information is being reviewed by experts and correction or amendments will need to be done before sharing. Summary reports and data dictionaries are available in Appendix C.

5. Conclusions and recommendations

This work could be considered an initial step of what could become a continuous process of referencing and storing ecological data. Here an open source reference manager (JabRef) is used to accomplish the main aim of this work. However, to further facilitate the sharing of GIS references and publications among EBMWG members, research teams and specific projects, and to keep the database up-to-date, a web based bibliography management system will need to be created.

Currently there are open sources application such as Zotero and Aigaion than are developing ways to share and update bibliographic references over the internet. In this

case JabRef bibliographic database can very well be integrated with Aigaion. Aigaion has been developed as a web based application for collecting and maintaining a shared, annotated bibliography. It allows one to collect bibliographic references, organize them using a topic hierarchy, annotate them with notes, make (parts of) the database available publicly, and flexibly allow access to individual objects for registered users and guests (Aigaion, 2008). With the assistance of EBM members the bibliographic database can be kept up-to-date. Further details of Aigaion can be found at:

http://www.aigaion.nl/

As previously mentioned, thematic map reports are very important to understand how displayed data were generated and how the user should best interpret it. Collecting map reports was a challenging process, since the only reference available to request (trace back) them was the focal species name. Available shapefiles names and data dictionary tables could not be used, since they are abstract and possibly unknown to the informant. Nonetheless, some reports were collected and further studied to extract specific information as well as to associate them with a specific thematic map. This association was done based on the data dictionary attribute labels.

Map report → Data Dictionary → Thematic Map (shapefile)

At the beginning of this work it was noticed that compressed file names (*.zip) were renamed to better suit the project requirements. As compressed names could easily be changed it was decided to associate the map report to a shapefile name (*shp / .e00), as it is less likely to be changed. Consequently, summary reports and data dictionary include the compressed file name and the shape file name(s). In addition they also include the location of the shapefile in the FTP-server archive, since similar shapefiles could be found in different directories of the FTP-server. As result, report maps and data dictionaries are re-associated to a specific thematic map. It is suggested that in the future more thematic maps and map reports are associated and if possible shared as a whole.

Finally, even though with the assistance of the spreadsheet 'EBM Detailed Strategic Planning Source Data' (Sunde, 2008), navigating through the EBMWG FTP-server is not easy, due to the presence of folder and files in the root directory. It will be very helpful if folders and files are organised in a tree directory based on focal species.

6. Digital data

Accompanying to this report is a compact disk (CD) that contains collected and generated information. The CD is organised as follows.

ROOT

1- BC_CoastBoundaries

2- MoE_Wildlife

3- FSP_Cross-ref

4- Map Reports

5- Catalogue

6- Map Reportsum

7- Data_Dictionary

8- Website

9- Report

The BC_CoastBoundaries folder contains information such as the coast ministerial boundaries, environment regions and CCLRMP landscape units. This data was used to create a map of landscape units for the whole BC coast (landscape_units1.shp and landscape_unitsouth1.shp).

The MoE_Wildlife folder contains ecological thematic maps on focal species, as posted in the EBMWG FTP-server. The information is organised by focal species for easy browsing.

The FSP_Cross-ref folder contains the cross-reference results of the focal species inventory (§2) against the focal species thematic maps posted in EBMWG FTP-server.

The next folder contains thematic map reports, organised by focal species. Original documents in MS word format (*.doc) were converted to portable document format (*.pdf) for handling and sharing, so preventing that the original document is altered by error.

The Catalogue folder is dedicated to the JabRef software executable (JabRef-2.3.1.jar), and to the bibliographic database (EBMWG.bib). The sub-folder Layout contains the reference output styles (layout), such as journal, excel or html.

The Map-Reportsum exhibits the summaries of map reports and associated data dictionaries. These MS word (*.doc) documents are sorted by focal species. File names are similar to the original document (either report or shapefile (*.shp/*.e00)).

Similarly, the Data_Dictionary contains MS word (*.doc) documents of thematic maps data dictionaries to be filled up when their associated report is available.

During this work, a website was created to display the results obtained so far and facilitate the communication with EBMWG members. Finally the last folder contains a digital copy of this report.

Appendix A

CROSS REFERENCING FOCAL SPECIES DATA

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	ASTR					
				Zipefile name:	Astr_midcoast		Astr_northcoast		Astr_southcoast	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Astr_wha_centralcoast_cc.e00	#Obser.	Astr_north_coast	#Obser.	Astr_south_coast
6	NC	NC	1	Anyox		-999		-999		-999
6	NC	NC	2	Aristazabal		-999		-999		-999
6	NC	NC	3	Banks		-999		-999		-999
6	NC	NC	4	Belle Bay		-999		-999		-999
6	NC	NC	5	Big Falls		-999	6	1		-999
6	NC	NC	6	Bishop (DNC)		-999	3	1		-999
6	NC	NC	7	Brown		-999		-999		-999
6	NC	NC	8	Campania		-999		-999		-999
6	NC	NC	9	Captain		-999		-999		-999
6	NC	NC	10	Chambers		-999		-999		-999
6	NC	NC	11	Crab		-999	2	1		-999
6	NC	NC	12	Dundas		-999		-999		-999
6	NC	NC	13	Gil		-999		-999		-999
6	NC	NC	14	Gribbell		-999	7	1		-999
6	NC	NC	15	Hartley		-999		-999		-999
6	NC	NC	16	Hawkes South		-999	5	1		-999
6	NC	NC	17	Hevenor		-999		-999		-999
6	NC	NC	18	Johnston		-999		-999		-999
6	NC	NC	19	Kainen		-999		-999		-999
6	NC	NC	20	Khtada		-999	3	1		-999
6	NC	NC	21	Khutzeymateen		-999		-999		-999
6	NC	NC	22	Khyex		-999	5	1		-999
6	NC	NC	23	Kiltuish		-999	2	1		-999
6	NC	NC	24	Kitkiata		-999	8	1		-999
6	NC	NC	25	Kitsault		-999		-999		-999
6	NC	NC	26	Kshwan		-999		-999		-999
6	NC	NC	27	Kumealon		-999		-999		-999
6	NC	NC	28	Kwinamass		-999		-999		-999
6	NC	NC	29	Kwinamuck		-999		-999		-999
6	NC	NC	30	Marmot		-999		-999		-999
6	NC	NC	31	McCauley		-999		-999		-999
6	NC	NC	32	Monckton		-999		-999		-999
6	NC	NC	33	Observatory East		-999		-999		-999
6	NC	NC	34	Observatory West		-999		-999		-999
6	NC	NC	35	Olh		-999		-999		-999
6	NC	NC	36	Pa'aat		-999		-999		-999
6	NC	NC	37	Pearse		-999		-999		-999
6	NC	NC	38	Porcher		-999		-999		-999
6	NC	NC	39	Quottoon		-999		-999		-999
6	NC	NC	40	Red Bluff		-999		-999		-999
6	NC	NC	41	Scotia		-999	4	1		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	ASTR					
				Zipefile name:	Astr_midcoast		Astr_northcoast		Astr_southcoast	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Astr_wha_centralcoast_cc.e00	#Obser.	Astr_north_coast	#Obser.	Astr_south_coast
6	NC	NC	42	Skeena Islands		-999	2	1		-999
6	NC	NC	43	Somerville		-999		-999		-999
6	NC	NC	44	Sparkling		-999		-999		-999
6	NC	NC	45	Stagoo		-999		-999		-999
6	NC	NC	46	Stephens		-999		-999		-999
6	NC	NC	47	Triumph		-999		-999		-999
6	NC	NC	48	Trutch		-999		-999		-999
6	NC	NC	49	Tuck		-999		-999		-999
6	NC	NC	50	Union		-999		-999		-999
5	NC	CCN	N1	Chapple		-999	5	1		-999
5	NC	CCN		Helmcken		-999	6	1		-999
5	NC	CCN		Laredo		-999	10	1		-999
5	NC	CCN		Surf		-999	8	1		-999
5	NC	CCN	N2	Aaltanhash		-999	2	1		-999
5	NC	CCN		Butedale		-999	6	1		-999
5	NC	CCN		Green		-999	4	1		-999
5	NC	CCN		Khutze		-999	2	1		-999
5	NC	CCN		Klekane		-999	3	1		-999
5	NC	CCN		Kynoch		-999		-999		-999
5	NC	CCN		Sheep Passage		-999	1	1		-999
5	NC	CCN		Tolmie		-999	6	1		-999
5	NC	CCN		Whalen		-999	7	1		-999
5	NC	CCN	N3	Price		-999		-999		-999
5	NC	CCN		Roderick	4	1	7	1		-999
5	NC	CCN		Swindle		-999	1	1		-999
5	NC	CCN	N4	Don Peninsula	4	1	4	1		-999
5	NC	CCN		Ellerslie		-999		-999		-999
5	NC	CCN		Roscoe	1	1		-999		-999
5	NC	CCN		Yeo	7	1		-999		-999
5	NC	CCN	N5	Braden	3	1		-999		-999
5	NC	CCN		King Island	5	1		-999		-999
5	NC	CCS		Labouchere	2	1		-999		-999
5	NC	CCN		Nascall		-999		-999		-999
5	NC	CCS	N6	Dean		-999		-999		-999
5	NC	CCS		Jump Acrross		-999		-999		-999
5	NC	CCN		Lower Kimsquit		-999		-999		-999
5	NC	CCN		Sutslem/Skowquiltz	1	1		-999		-999
5	NC	CCN		Upper Kimsquit		-999		-999		-999
5	NC	CCS	N7	Atnarko		-999		-999		-999
5	NC	CCS		Crag		-999		-999		-999
5	NC	CCS		Nechako		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	ASTR					
				Zipefile name:	Astr_midcoast		Astr_northcoast		Astr_southcoast	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Astr_wha_centralcoast_cc.e00	#Obser.	Astr_north_coast	#Obser.	Astr_south_coast
5	NC	CCS		Sigulat		-999		-999		-999
5	NC	CCS		Young		-999		-999		-999
5	NC	CCN	N8	Outer Coast Islands		-999		-999		-999
5	NC	CCN	N9	Denny		-999		-999		-999
5	NC	CCN		Evans	8	1		-999		-999
5	NC	CCN		Hunter		-999		-999		-999
5	NC	CCN	N10	Clyak	2	1		-999		-999
5	NC	CCN		Kwatna/Quatlena	4	1		-999		-999
5	NC	CCN		Nootum/Koeye	5	1		-999		-999
5	NC	CCS		Twin	4	1		-999		-999
5	NC	CCS	N11	Clayton	4	1		-999		-999
5	NC	CCS		Smitley/Noeick	3	1		-999		-999
5	NC	CCS		South Bentinck	2	1		-999		-999
5	NC	CCS		Taleomey/Asseek		-999		-999		-999
5	NC	CCS	N12	Ape		-999		-999		-999
5	NC	CCS		Bella Coola	1	1		-999		-999
5	NC	CCS		Nusatsum	1	1		-999		-999
5	NC	CCS		Saloompt	4	1		-999		-999
5	NC	CCS		Talchako/Gyllenspetz		-999		-999		-999
5	NC	CCN	N13	Calvert		-999		-999		-999
5	NC	CCS	N14	Chukwalla/Kibella	1	1		-999		-999
5	NC	CCS		Doos/Dallery	3	1		-999		-999
5	NC	CCS		Kilippi	1	1		-999		-999
1	NC	CCS		Machmell	1	1		-999		-999
1	NC	CCS		Neechanz	1	1		-999		-999
5	NC	CCN		Owikeno	2	1		-999		-999
5	NC	CCN	N15	Sheemahant	1	1		-999		-999
5	NC	CCS		Sumquolt		-999		-999		-999
5	NC	CCS		Washwash		-999		-999		-999
5	NC	CCN	N16	Draney	1	1		-999		-999
5	NC	CCN		Fish Egg	5	1		-999		-999
5	NC	CCN		Johnston (DMC)	2	1		-999		-999
5	NC	CCN		Nekite	2	1		-999		-999
5	SC	CCS	S1	Draney	4	1		-999		-999
5	SC	CCS		Nekite	1	1		-999		-999
5	SC	CCS		Smith Sound		-999		-999		-999
5	SC	CCS		Smokehouse	3	1		-999		-999
1	SC	CCS	S2	Lower Kingcome		-999		-999	4	1
1	SC	CCS		Seymour		-999		-999	1	1
1	SC	CCS		Upper Kingcome		-999		-999	3	1
1	SC	CCS		Wakeman		-999		-999	2	1

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	ASTR					
				Zipefile name:	Astr_midcoast		Astr_northcoast		Astr_southcoast	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Astr_wha_centralcoast_cc.e00	#Obser.	Astr_north_coast	#Obser.	Astr_south_coast
1	SC	CCS	S3	Franklin		-999		-999		-999
1	SC	CCS		Klinkaklini Glacier		-999		-999		-999
1	SC	CCS		Lower Klinaklini		-999		-999	1	1
1	SC	CCS		Sim		-999		-999		-999
5	SC	CCS	S4	Middle Klinaklini		-999		-999	1	1
5	SC	CCS		Upper Klinaklini		-999		-999	1	1
1	SC	CCS	S5	Allison		-999		-999		-999
1	SC	CCS		Belize		-999		-999	7	1
1	SC	CCS		Huaskin		-999		-999		-999
1	SC	CCS		Walker		-999		-999		-999
1	SC	CCS	S6	Charles		-999		-999		-999
1	SC	CCS		Miriam		-999		-999		-999
1	SC	CCS		Snowdrift		-999		-999	2	1
1	SC	CCS	S7	Broughton		-999		-999		-999
1	SC	CCS		Gilford		-999		-999		-999
1	SC	CCS	S8	Ahnuhati-Kwalate		-999		-999	1	1
1	SC	CCS		Ahta		-999		-999	2	1
1	SC	CCS		Kakweiken		-999		-999	3	1
1	SC	CCS	S9	Knight East		-999		-999	3	1
1	SC	CCS		Lull-Sallie		-999		-999		-999
2	SC	CCS	S10	Estero		-999		-999		-999
1	SC	CCS		Fulmore		-999		-999	3	1
1	SC	CCS		Gray		-999		-999		-999
1	SC	CCS		Thurlow		-999		-999	2	1
1	SC	CCS	S11	Stafford		-999		-999	2	1
2	SC	CCS		Phillips		-999		-999	1	1

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	ASTR				
				Zipefile name:	Astr_southcoast		Astr_probability		MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Astr_south_coast	#Obser.	Astr_probability	
6	NC	NC	1	Anyox		-999		-999	-999
6	NC	NC	2	Aristazabal		-999		-999	-999
6	NC	NC	3	Banks		-999		-999	-999
6	NC	NC	4	Belle Bay		-999		-999	-999
6	NC	NC	5	Big Falls		-999	11	1	-999
6	NC	NC	6	Bishop (DNC)		-999	20	1	-999
6	NC	NC	7	Brown		-999		-999	-999
6	NC	NC	8	Campania		-999		-999	-999
6	NC	NC	9	Captain		-999		-999	-999
6	NC	NC	10	Chambers		-999		-999	-999
6	NC	NC	11	Crab		-999	6	1	-999
6	NC	NC	12	Dundas		-999		-999	-999
6	NC	NC	13	Gil		-999		-999	-999
6	NC	NC	14	Gribbell		-999	14	1	-999
6	NC	NC	15	Hartley		-999		-999	-999
6	NC	NC	16	Hawkes South		-999	14	1	-999
6	NC	NC	17	Hevenor		-999		-999	-999
6	NC	NC	18	Johnston		-999		-999	-999
6	NC	NC	19	Kainen		-999		-999	-999
6	NC	NC	20	Khtada		-999	4	1	-999
6	NC	NC	21	Khutzeymateen		-999		-999	-999
6	NC	NC	22	Khyex		-999	18	1	-999
6	NC	NC	23	Kiltuish		-999	2	1	-999
6	NC	NC	24	Kitkiata		-999	21	1	-999
6	NC	NC	25	Kitsault		-999		-999	-999
6	NC	NC	26	Kshwan		-999		-999	-999
6	NC	NC	27	Kumealon		-999		-999	-999
6	NC	NC	28	Kwinamass		-999		-999	-999
6	NC	NC	29	Kwinamuck		-999		-999	-999
6	NC	NC	30	Marmot		-999		-999	-999
6	NC	NC	31	McCauley		-999		-999	-999
6	NC	NC	32	Monckton		-999		-999	-999
6	NC	NC	33	Observatory East		-999		-999	-999
6	NC	NC	34	Observatory West		-999		-999	-999
6	NC	NC	35	Olh		-999		-999	-999
6	NC	NC	36	Pa'aat		-999		-999	-999
6	NC	NC	37	Pearse		-999		-999	-999
6	NC	NC	38	Porcher		-999		-999	-999
6	NC	NC	39	Quottoon		-999		-999	-999
6	NC	NC	40	Red Bluff		-999		-999	-999
6	NC	NC	41	Scotia		-999	7	1	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	ASTR				
				Zipefile name:	Astr_southcoast		Astr_probability		MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Astr_south_coast	#Obser.	Astr_probability	
6	NC	NC	42	Skeena Islands		-999	1	1	-999
6	NC	NC	43	Somerville		-999		-999	-999
6	NC	NC	44	Sparkling		-999		-999	-999
6	NC	NC	45	Stagoo		-999		-999	-999
6	NC	NC	46	Stephens		-999		-999	-999
6	NC	NC	47	Triumph		-999	8	1	-999
6	NC	NC	48	Trutch		-999		-999	-999
6	NC	NC	49	Tuck		-999		-999	-999
6	NC	NC	50	Union		-999		-999	-999
5	NC	CCN	N1	Chapple		-999	22	1	-999
5	NC	CCN		Helmcken		-999	46	1	-999
5	NC	CCN		Laredo		-999	31	1	-999
5	NC	CCN		Surf		-999	27	1	-999
5	NC	CCN	N2	Aaltanhash		-999	5	1	-999
5	NC	CCN		Butedale		-999	9	1	-999
5	NC	CCN		Green		-999	9	1	-999
5	NC	CCN		Khutze		-999	5	1	-999
5	NC	CCN		Klekane		-999	9	1	-999
5	NC	CCN		Kynoch		-999	18	1	-999
5	NC	CCN		Sheep Passage		-999	19	1	-999
5	NC	CCN		Tolmie		-999	23	1	-999
5	NC	CCN		Whalen		-999	19	1	-999
5	NC	CCN	N3	Price		-999		-999	-999
5	NC	CCN		Roderick		-999	71	1	-999
5	NC	CCN		Swindle		-999	10	1	-999
5	NC	CCN	N4	Don Peninsula		-999	67	1	-999
5	NC	CCN		Ellerslie		-999	17	1	-999
5	NC	CCN		Roscoe		-999	25	1	-999
5	NC	CCN		Yeo		-999	41	1	-999
5	NC	CCN	N5	Braden		-999	20	1	-999
5	NC	CCN		King Island		-999	30	1	-999
5	NC	CCS		Labouchere		-999	5	1	-999
5	NC	CCN		Nascall		-999	12	1	-999
5	NC	CCS	N6	Dean		-999	3	1	-999
5	NC	CCS		Jump Acrross		-999		-999	-999
5	NC	CCN		Lower Kimsquit		-999	2	1	-999
5	NC	CCN		Sutslem/Skowquiltz		-999	5	1	-999
5	NC	CCN		Upper Kimsquit		-999	2	1	-999
5	NC	CCS	N7	Atnarko		-999	1	1	-999
5	NC	CCS		Crag		-999		-999	-999
5	NC	CCS		Nechako		-999		-999	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	ASTR				
				Zipefile name:	Astr_southcoast		Astr_probability		MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Astr_south_coast	#Obser.	Astr_probability	
5	NC	CCS		Sigulat		-999		-999	-999
5	NC	CCS		Young		-999		-999	-999
5	NC	CCN	N8	Outer Coast Islands		-999		-999	-999
5	NC	CCN	N9	Denny		-999		-999	-999
5	NC	CCN		Evans		-999	62	1	-999
5	NC	CCN		Hunter		-999		-999	-999
5	NC	CCN	N10	Clyak		-999	2	1	-999
5	NC	CCN		Kwatna/Quatlena		-999	24	1	-999
5	NC	CCN		Nootum/Koeye		-999	35	1	-999
5	NC	CCS		Twin		-999	10	1	-999
5	NC	CCS	N11	Clayton		-999	5	1	-999
5	NC	CCS		Smitley/Noeick		-999	2	1	-999
5	NC	CCS		South Bentinck		-999	2	1	-999
5	NC	CCS		Taleomey/Asseek		-999		-999	-999
5	NC	CCS	N12	Ape		-999		-999	-999
5	NC	CCS		Bella Coola		-999	2	1	-999
5	NC	CCS		Nusatsum		-999	2	1	-999
5	NC	CCS		Saloompt		-999	2	1	-999
5	NC	CCS		Talchako/Gyllenspetz		-999	1	1	-999
5	NC	CCN	N13	Calvert		-999		-999	-999
5	NC	CCS	N14	Chukwalla/Kibella		-999	5	1	-999
5	NC	CCS		Doos/Dallery		-999	8	1	-999
5	NC	CCS		Kilippi		-999		-999	-999
1	NC	CCS		Machmell		-999	4	1	-999
1	NC	CCS		Neechanz		-999	1	1	-999
5	NC	CCN		Owikeno		-999	4	1	-999
5	NC	CCN	N15	Sheemahant		-999	2	1	-999
5	NC	CCS		Sumquolt		-999		-999	-999
5	NC	CCS		Washwash		-999		-999	-999
5	NC	CCN	N16	Draney		-999	13	1	-999
5	NC	CCN		Fish Egg		-999	39	1	-999
5	NC	CCN		Johnston (DMC)		-999	5	1	-999
5	NC	CCN		Nekite		-999	9	1	-999
5	SC	CCS	S1	Draney		-999		-999	-999
5	SC	CCS		Nekite		-999		-999	-999
5	SC	CCS		Smith Sound		-999		-999	-999
5	SC	CCS		Smokehouse		-999	8	1	-999
1	SC	CCS	S2	Lower Kingcome	4	1	11	1	-999
1	SC	CCS		Seymour	1	1	2	1	-999
1	SC	CCS		Upper Kingcome	3	1	1	1	-999
1	SC	CCS		Wakeman	2	1	4	1	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	ASTR				
				Zipefile name:	Astr_southcoast		Astr_probability		MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Astr_south_coast	#Obser.	Astr_probability	
1	SC	CCS	S3	Franklin		-999		-999	-999
1	SC	CCS		Klinkaklini Glacier		-999		-999	-999
1	SC	CCS		Lower Klinaklini	1	1	2	1	-999
1	SC	CCS		Sim		-999		-999	-999
5	SC	CCS	S4	Middle Klinaklini	1	1	2	1	-999
5	SC	CCS		Upper Klinaklini	1	1	5	1	-999
1	SC	CCS	S5	Allison		-999		-999	-999
1	SC	CCS		Belize	7	1	22	1	-999
1	SC	CCS		Huaskin		-999		-999	-999
1	SC	CCS		Walker		-999		-999	-999
1	SC	CCS	S6	Charles		-999	2	1	-999
1	SC	CCS		Miriam		-999		-999	-999
1	SC	CCS		Snowdrift	2	1	4	1	-999
1	SC	CCS	S7	Broughton		-999		-999	-999
1	SC	CCS		Gilford		-999		-999	-999
1	SC	CCS	S8	Ahnuhati-Kwalate	1	1	1	1	-999
1	SC	CCS		Ahta	2	1	5	1	-999
1	SC	CCS		Kakweiken	3	1	4	1	-999
1	SC	CCS	S9	Knight East	3	1	11	1	-999
1	SC	CCS		Lull-Sallie		-999	1	1	-999
2	SC	CCS	S10	Estero		-999	3	1	-999
1	SC	CCS		Fulmore	3	1	29	1	-999
1	SC	CCS		Gray		-999	3	1	-999
1	SC	CCS		Thurlow	2	1	8	1	-999
1	SC	CCS	S11	Stafford	2	1	4	1	-999
2	SC	CCS		Phillips	1	1	2	1	-999

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	Tailedfrog						
				Zipefile name:	1225_tailefrog_locations		Tailed_frog_locations_kalum		Tailed_frog_locations_midcoast		MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	1225_tailefrog_locations	#Obser.	Tailed_frog_locations_kalum	#Obser.	Tailed_frog_locations_midcoast	
6	NC	NC	1	Anyox		-999		-999	19	1	-999
6	NC	NC	2	Aristazabal		-999		-999		-999	-999
6	NC	NC	3	Banks	2	1		-999		-999	-999
6	NC	NC	4	Belle Bay	2	1	1	1		-999	-999
6	NC	NC	5	Big Falls	9	1	10	1	4	1	-999
6	NC	NC	6	Bishop (DNC)		-999		-999		-999	-999
6	NC	NC	7	Brown	3	1		-999		-999	-999
6	NC	NC	8	Campania	13	1		-999	13	1	-999
6	NC	NC	9	Captain		-999		-999		-999	-999
6	NC	NC	10	Chambers		-999		-999		-999	-999
6	NC	NC	11	Crab		-999		-999		-999	-999
6	NC	NC	12	Dundas		-999		-999		-999	-999
6	NC	NC	13	Gil		-999		-999		-999	-999
6	NC	NC	14	Gribbell	1	1		-999		-999	-999
6	NC	NC	15	Hartley		-999		-999		-999	-999
6	NC	NC	16	Hawkes South	2	1		-999		-999	-999
6	NC	NC	17	Hevenor		-999		-999		-999	-999
6	NC	NC	18	Johnston		-999		-999	6	1	-999
6	NC	NC	19	Kainen	3	1	7	1	1	1	-999
6	NC	NC	20	Khtada		-999		-999		-999	-999
6	NC	NC	21	Khutzeymateen		-999		-999		-999	-999
6	NC	NC	22	Khyex	3	1		-999	1	1	-999
6	NC	NC	23	Kiltuish	5	1		-999	17	1	-999
6	NC	NC	24	Kitkiata		-999		-999		-999	-999
6	NC	NC	25	Kitsault	2	1		-999		-999	-999
6	NC	NC	26	Kshwan	13	1		-999		-999	-999
6	NC	NC	27	Kumealon	9	1		-999		-999	-999
6	NC	NC	28	Kwinamass		-999		-999		-999	-999
6	NC	NC	29	Kwinamuck	1	1		-999		-999	-999
6	NC	NC	30	Marmot	4	1		-999	5	1	-999
6	NC	NC	31	McCauley		-999		-999		-999	-999
6	NC	NC	32	Monckton		-999		-999		-999	-999
6	NC	NC	33	Observatory East		-999		-999		-999	-999
6	NC	NC	34	Observatory West		-999		-999	14	1	-999
6	NC	NC	35	Olh		-999		-999		-999	-999
6	NC	NC	36	Pa'aat		-999		-999		-999	-999
6	NC	NC	37	Pearse		-999		-999		-999	-999
6	NC	NC	38	Porcher	2	1		-999	2	1	-999
6	NC	NC	39	Quottoon		-999		-999		-999	-999
6	NC	NC	40	Red Bluff		-999		-999		-999	-999
6	NC	NC	41	Scotia	3	1	7	1	7	1	-999
6	NC	NC	42	Skeena Islands	2	1		-999	2	1	-999
6	NC	NC	43	Somerville	2	1		-999	2	1	-999
6	NC	NC	44	Sparkling		-999		-999		-999	-999
6	NC	NC	45	Stagoo		-999		-999		-999	-999
6	NC	NC	46	Stephens		-999		-999		-999	-999
6	NC	NC	47	Triumph	1	1		-999		-999	-999
6	NC	NC	48	Trutch		-999		-999		-999	-999
6	NC	NC	49	Tuck		-999		-999		-999	-999
6	NC	NC	50	Union	8	1		-999		-999	-999
5	NC	CCN	N1	Chapple		-999		-999		-999	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	Tailedfrog						
				Zipefile name:	1225_tailefrog_locations		Tailed_frog_locations_kalum		Tailed_frog_locations_midcoast		MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	1225_tailefrog_locations	#Obser.	Tailed_frog_locations_kalum	#Obser.	Tailed_frog_locations_midcoast	
5	NC	CCN		Helmcken		-999		-999		-999	-999
5	NC	CCN		Laredo		-999		-999		-999	-999
5	NC	CCN		Surf	2	1		-999	2	1	-999
5	NC	CCN	N2	Aaltanhash		-999		-999		-999	-999
5	NC	CCN		Butedale		-999		-999		-999	-999
5	NC	CCN		Green		-999		-999		-999	-999
5	NC	CCN		Khutze		-999		-999		-999	-999
5	NC	CCN		Klekane		-999		-999		-999	-999
5	NC	CCN		Kynoch		-999		-999		-999	-999
5	NC	CCN		Sheep Passage		-999		-999		-999	-999
5	NC	CCN		Tolmie		-999		-999		-999	-999
5	NC	CCN		Whalen	1	1		-999		-999	-999
5	NC	CCN	N3	Price		-999		-999		-999	-999
5	NC	CCN		Roderick	7	1		-999		-999	1
5	NC	CCN		Swindle		-999		-999		-999	-999
5	NC	CCN	N4	Don Peninsula		-999		-999		-999	1
5	NC	CCN		Ellerslie		-999		-999		-999	-999
5	NC	CCN		Roscoe	1	1		-999		-999	-999
5	NC	CCN		Yeo		-999		-999		-999	1
5	NC	CCN	N5	Braden		-999		-999		-999	-999
5	NC	CCN		King Island	8	1		-999	7	1	1
5	NC	CCS		Labouchere		-999		-999		-999	-999
5	NC	CCN		Nascall		-999		-999		-999	1
5	NC	CCS	N6	Dean		-999		-999		-999	-999
5	NC	CCS		Jump Acrross		-999		-999		-999	-999
5	NC	CCN		Lower Kimsquit		-999		-999		-999	1
5	NC	CCN		Sutslem/Skowquiltz	4	1		-999		-999	-999
5	NC	CCN		Upper Kimsquit		-999		-999		-999	-999
5	NC	CCS	N7	Atnarko		-999		-999		-999	-999
5	NC	CCS		Crag		-999		-999		-999	-999
5	NC	CCS		Nechako		-999		-999		-999	-999
5	NC	CCS		Sigulat		-999		-999		-999	-999
5	NC	CCS		Young		-999		-999		-999	-999
5	NC	CCN	N8	Outer Coast Islands		-999		-999		-999	-999
5	NC	CCN	N9	Denny		-999		-999		-999	-999
5	NC	CCN		Evans		-999		-999		-999	-999
5	NC	CCN		Hunter		-999		-999		-999	-999
5	NC	CCN	N10	Clyak	13	1		-999	13	1	1
5	NC	CCN		Kwatna/Quatlena	2	1		-999		-999	1
5	NC	CCN		Nootum/Koeye	6	1		-999		-999	1
5	NC	CCS		Twin	2	1		-999		-999	1
5	NC	CCS	N11	Clayton		-999		-999		-999	-999
5	NC	CCS		Smitley/Noeick		-999		-999		-999	-999
5	NC	CCS		South Bentinck		-999		-999		-999	-999
5	NC	CCS		Taleomey/Asseek		-999		-999		-999	-999
5	NC	CCS	N12	Ape		-999		-999		-999	-999
5	NC	CCS		Bella Coola		-999		-999		-999	1
5	NC	CCS		Nusatsum		-999		-999		-999	1
5	NC	CCS		Saloompt		-999		-999		-999	1
5	NC	CCS		Talchako/Gyllenspetz		-999		-999		-999	-999
5	NC	CCN	N13	Calvert		-999		-999		-999	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	Tailedfrog						
				Zipefile name:	1225_tailefrog_locations		Tailed_frog_locations_kalum		Tailed_frog_locations_midcoast		MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	1225_tailefrog_locations	#Obser.	Tailed_frog_locations_kalum	#Obser.	Tailed_frog_locations_midcoast	
5	NC	CCS	N14	Chukwalla/Kibella		-999		-999		-999	1
5	NC	CCS		Doos/Dallery	1	1		-999		-999	-999
5	NC	CCS		Kilippi		-999		-999		-999	1
1	NC	CCS		Machmell		-999		-999		-999	1
1	NC	CCS		Neechanz		-999		-999		-999	-999
5	NC	CCN		Owikeno		-999		-999		-999	1
5	NC	CCN	N15	Sheemahant		-999		-999		-999	1
5	NC	CCS		Sumquolt		-999		-999		-999	-999
5	NC	CCS		Washwash		-999		-999		-999	-999
5	NC	CCN	N16	Draney	4	1		-999	4	1	-999
5	NC	CCN		Fish Egg		-999		-999		-999	-999
5	NC	CCN		Johnston (DMC)		-999		-999		-999	-999
5	NC	CCN		Nekite		-999		-999		-999	-999
5	SC	CCS	S1	Draney		-999		-999		-999	-999
5	SC	CCS		Nekite		-999		-999		-999	1
5	SC	CCS		Smith Sound		-999		-999		-999	1
5	SC	CCS		Smokehouse		-999		-999		-999	1
1	SC	CCS	S2	Lower Kingcome		-999		-999		-999	1
1	SC	CCS		Seymour		-999		-999		-999	1
1	SC	CCS		Upper Kingcome		-999		-999		-999	1
1	SC	CCS		Wakeman		-999		-999		-999	1
1	SC	CCS	S3	Franklin		-999		-999		-999	1
1	SC	CCS		Klinkaklini Glacier		-999		-999		-999	1
1	SC	CCS		Lower Klinaklini		-999		-999		-999	1
1	SC	CCS		Sim		-999		-999		-999	1
5	SC	CCS	S4	Middle Klinaklini		-999		-999		-999	1
5	SC	CCS		Upper Klinaklini		-999		-999		-999	-999
1	SC	CCS	S5	Allison		-999		-999		-999	1
1	SC	CCS		Belize		-999		-999		-999	1
1	SC	CCS		Huaskin		-999		-999		-999	1
1	SC	CCS		Walker		-999		-999		-999	-999
1	SC	CCS	S6	Charles		-999		-999		-999	1
1	SC	CCS		Miriam		-999		-999		-999	1
1	SC	CCS		Snowdrift		-999		-999		-999	1
1	SC	CCS	S7	Broughton		-999		-999		-999	1
1	SC	CCS		Gilford		-999		-999		-999	1
1	SC	CCS	S8	Ahnuhati-Kwalate		-999		-999		-999	1
1	SC	CCS		Ahta		-999		-999		-999	1
1	SC	CCS		Kakweiken		-999		-999		-999	1
1	SC	CCS	S9	Knight East		-999		-999		-999	1
1	SC	CCS		Lull-Sallie		-999		-999		-999	1
2	SC	CCS	S10	Estero		-999		-999		-999	1
1	SC	CCS		Fulmore		-999		-999		-999	1
1	SC	CCS		Gray		-999		-999		-999	1
1	SC	CCS		Thurlow		-999		-999		-999	1
1	SC	CCS	S11	Stafford		-999		-999		-999	1
2	SC	CCS		Phillips		-999		-999		-999	1

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	BLACK BEAR		
				Zipefile name:		Black bear_cc	MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Qbbr_cc.e00	
6	NC	NC	1	Anyox		-999	-999
6	NC	NC	2	Aristazabal		-999	-999
6	NC	NC	3	Banks		-999	-999
6	NC	NC	4	Belle Bay		-999	-999
6	NC	NC	5	Big Falls		-999	-999
6	NC	NC	6	Bishop (DNC)	2	1	-999
6	NC	NC	7	Brown		-999	-999
6	NC	NC	8	Campania		-999	-999
6	NC	NC	9	Captain		-999	-999
6	NC	NC	10	Chambers		-999	-999
6	NC	NC	11	Crab		-999	-999
6	NC	NC	12	Dundas		-999	-999
6	NC	NC	13	Gil		-999	-999
6	NC	NC	14	Gribbell		-999	-999
6	NC	NC	15	Hartley		-999	-999
6	NC	NC	16	Hawkes South		-999	-999
6	NC	NC	17	Hevenor		-999	-999
6	NC	NC	18	Johnston		-999	-999
6	NC	NC	19	Kainen		-999	-999
6	NC	NC	20	Khtada		-999	-999
6	NC	NC	21	Khutzeymateen		-999	-999
6	NC	NC	22	Khyex		-999	-999
6	NC	NC	23	Kiltuish		-999	-999
6	NC	NC	24	Kitkiata		-999	-999
6	NC	NC	25	Kitsault		-999	-999
6	NC	NC	26	Kshwan		-999	-999
6	NC	NC	27	Kumealon		-999	-999
6	NC	NC	28	Kwinamass		-999	-999
6	NC	NC	29	Kwinamuck		-999	-999
6	NC	NC	30	Marmot		-999	-999
6	NC	NC	31	McCauley		-999	-999
6	NC	NC	32	Monckton		-999	-999
6	NC	NC	33	Observatory East		-999	-999
6	NC	NC	34	Observatory West		-999	-999
6	NC	NC	35	Olh		-999	-999
6	NC	NC	36	Pa'aat		-999	-999
6	NC	NC	37	Pearse		-999	-999
6	NC	NC	38	Porcher		-999	-999
6	NC	NC	39	Quottoon		-999	-999
6	NC	NC	40	Red Bluff		-999	-999
6	NC	NC	41	Scotia		-999	-999
6	NC	NC	42	Skeena Islands		-999	-999
6	NC	NC	43	Somerville		-999	-999
6	NC	NC	44	Sparkling		-999	-999
6	NC	NC	45	Stagoo		-999	-999
6	NC	NC	46	Stephens		-999	-999
6	NC	NC	47	Triumph	1	1	-999
6	NC	NC	48	Trutch		-999	-999
6	NC	NC	49	Tuck		-999	-999
6	NC	NC	50	Union		-999	-999
5	NC	CCN	N1	Chapple	44	1	-999
5	NC	CCN		Helmcken	40	1	-999
5	NC	CCN		Laredo	94	1	-999
5	NC	CCN		Surf	25	1	-999
5	NC	CCN	N2	Aaltanhash	45	1	-999
5	NC	CCN		Butedale	42	1	-999
5	NC	CCN		Green	75	1	-999
5	NC	CCN		Khutze	71	1	-999
5	NC	CCN		Klekane	70	1	-999
5	NC	CCN		Kynoch	117	1	-999
5	NC	CCN		Sheep Passage	123	1	-999
5	NC	CCN		Tolmie	37	1	-999
5	NC	CCN		Whalen	37	1	-999
5	NC	CCN	N3	Price	101	1	-999
5	NC	CCN		Roderick	96	1	-999
5	NC	CCN		Swindle	70	1	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	BLACK BEAR		
				Zipefile name:		Black bear_cc	MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Qbbr_cc.e00	
5	NC	CCN	N4	Don Peninsula	76	1	-999
5	NC	CCN		Ellerslie	58	1	-999
5	NC	CCN		Roscoe	74	1	-999
5	NC	CCN		Yeo	47	1	-999
5	NC	CCN	N5	Braden	115	1	-999
5	NC	CCN		King Island	65	1	-999
5	NC	CCS		Labouchere	82	1	-999
5	NC	CCN		Nascall	109	1	-999
5	NC	CCS	N6	Dean	110	1	-999
5	NC	CCS		Jump Acrross	77	1	-999
5	NC	CCN		Lower Kimsquit	72	1	-999
5	NC	CCN		Sutslem/Skowquiltz	147	1	-999
5	NC	CCN		Upper Kimsquit	86	1	-999
5	NC	CCS	N7	Atnarko	157	1	-999
5	NC	CCS		Crag	38	1	-999
5	NC	CCS		Nechako	49	1	-999
5	NC	CCS		Sigulat	39	1	-999
5	NC	CCS		Young	23	1	-999
5	NC	CCN	N8	Outer Coast Islands	352	1	-999
5	NC	CCN	N9	Denny	80	1	-999
5	NC	CCN		Evans	57	1	-999
5	NC	CCN		Hunter	112	1	-999
5	NC	CCN	N10	Clyak	84	1	-999
5	NC	CCN		Kwatna/Quatlena	121	1	-999
5	NC	CCN		Nootum/Koeye	99	1	-999
5	NC	CCS		Twin	51	1	-999
5	NC	CCS	N11	Clayton	37	1	-999
5	NC	CCS		Smitley/Noeick	60	1	-999
5	NC	CCS		South Bentinck	42	1	-999
5	NC	CCS		Taleomey/Asseek	57	1	-999
5	NC	CCS	N12	Ape	61	1	-999
5	NC	CCS		Bella Coola	35	1	-999
5	NC	CCS		Nusatsum	70	1	-999
5	NC	CCS		Saloompt	117	1	-999
5	NC	CCS		Talchako/Gyllenspetz	87	1	-999
5	NC	CCN	N13	Calvert	59	1	-999
5	NC	CCS	N14	Chukwalla/Kibella	99	1	-999
5	NC	CCS		Doos/Dallery	74	1	-999
5	NC	CCS		Kilippi	51	1	-999
1	NC	CCS		Machmell	60	1	-999
1	NC	CCS		Neechanz	69	1	-999
5	NC	CCN		Owikeno	87	1	-999
5	NC	CCN	N15	Sheemahant	62	1	-999
5	NC	CCS		Sumquolt	61	1	-999
5	NC	CCS		Washwash	63	1	-999
5	NC	CCN	N16	Draney	46	1	-999
5	NC	CCN		Fish Egg	158	1	-999
5	NC	CCN		Johnston (DMC)	38	1	-999
5	NC	CCN		Nekite	44	1	-999
5	SC	CCS	S1	Draney	69	1	-999
5	SC	CCS		Nekite	104	1	-999
5	SC	CCS		Smith Sound	47	1	-999
5	SC	CCS		Smokehouse	68	1	-999
1	SC	CCS	S2	Lower Kingcome	81	1	-999
1	SC	CCS		Seymour	52	1	-999
1	SC	CCS		Upper Kingcome	98	1	-999
1	SC	CCS		Wakeman	75	1	-999
1	SC	CCS	S3	Franklin	72	1	-999
1	SC	CCS		Klinkaklini Glacier	72	1	-999
1	SC	CCS		Lower Klinaklini	85	1	-999
1	SC	CCS		Sim	61	1	-999
5	SC	CCS	S4	Middle Klinaklini	204	1	-999
5	SC	CCS		Upper Klinaklini	283	1	-999
1	SC	CCS	S5	Allison	123	1	-999
1	SC	CCS		Belize	130	1	-999
1	SC	CCS		Huaskin	51	1	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	BLACK BEAR		
				Zipefile name:		Black bear_cc	MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Qbbr_cc.e00	
1	SC	CCS		Walker	35	1	-999
1	SC	CCS	S6	Charles	42	1	-999
1	SC	CCS		Miriam	41	1	-999
1	SC	CCS		Snowdrift	66	1	-999
1	SC	CCS	S7	Broughton	306	1	-999
1	SC	CCS		Gilford	160	1	-999
1	SC	CCS	S8	Ahnuhati-Kwalate	66	1	-999
1	SC	CCS		Ahta	31	1	-999
1	SC	CCS		Kakweiken	83	1	-999
1	SC	CCS	S9	Knight East	70	1	-999
1	SC	CCS		Lull-Sallie	69	1	-999
2	SC	CCS	S10	Estero	52	1	-999
1	SC	CCS		Fulmore	121	1	-999
1	SC	CCS		Gray	30	1	-999
1	SC	CCS		Thurlow	78	1	-999
1	SC	CCS	S11	Stafford	106	1	-999
2	SC	CCS		Phillips	94	1	-999

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	DEER		
				Zipefile name:		Deer_WR_Mid_Coast	MoE-Focal Species Inventory
1=YES;	-99=NO DATA			Shapefile name:	#Obser.	Deer_wr_mid_coast	
6	NC	NC	1	Anyox		-999	-999
6	NC	NC	2	Aristazabal		-999	-999
6	NC	NC	3	Banks		-999	-999
6	NC	NC	4	Belle Bay		-999	-999
6	NC	NC	5	Big Falls		-999	-999
6	NC	NC	6	Bishop (DNC)		-999	-999
6	NC	NC	7	Brown		-999	-999
6	NC	NC	8	Campania		-999	-999
6	NC	NC	9	Captain		-999	-999
6	NC	NC	10	Chambers		-999	-999
6	NC	NC	11	Crab		-999	-999
6	NC	NC	12	Dundas		-999	-999
6	NC	NC	13	Gil		-999	-999
6	NC	NC	14	Gribbell		-999	-999
6	NC	NC	15	Hartley		-999	-999
6	NC	NC	16	Hawkes South		-999	-999
6	NC	NC	17	Hevenor		-999	-999
6	NC	NC	18	Johnston		-999	-999
6	NC	NC	19	Kainen		-999	-999
6	NC	NC	20	Khtada		-999	-999
6	NC	NC	21	Khutzeymateen		-999	-999
6	NC	NC	22	Khyex		-999	-999
6	NC	NC	23	Kiltuish		-999	-999
6	NC	NC	24	Kitkiata		-999	-999
6	NC	NC	25	Kitsault		-999	-999
6	NC	NC	26	Kshwan		-999	-999
6	NC	NC	27	Kumealon		-999	-999
6	NC	NC	28	Kwinamass		-999	-999
6	NC	NC	29	Kwinamuck		-999	-999
6	NC	NC	30	Marmot		-999	-999
6	NC	NC	31	McCauley		-999	-999
6	NC	NC	32	Monckton		-999	-999
6	NC	NC	33	Observatory East		-999	-999
6	NC	NC	34	Observatory West		-999	-999
6	NC	NC	35	Olh		-999	-999
6	NC	NC	36	Pa'aat		-999	-999
6	NC	NC	37	Pearse		-999	-999
6	NC	NC	38	Porcher		-999	-999
6	NC	NC	39	Quottoon		-999	-999
6	NC	NC	40	Red Bluff		-999	-999
6	NC	NC	41	Scotia		-999	-999
6	NC	NC	42	Skeena Islands		-999	-999
6	NC	NC	43	Somerville		-999	-999
6	NC	NC	44	Sparkling		-999	-999
6	NC	NC	45	Stagoo		-999	-999
6	NC	NC	46	Stephens		-999	-999
6	NC	NC	47	Triumph		-999	-999
6	NC	NC	48	Trutch		-999	-999
6	NC	NC	49	Tuck		-999	-999
6	NC	NC	50	Union		-999	-999
5	NC	CCN	N1	Chapple		-999	-999
5	NC	CCN		Helmcken		-999	-999
5	NC	CCN		Laredo		-999	-999
5	NC	CCN		Surf		-999	-999
5	NC	CCN	N2	Aaltanhash		-999	-999
5	NC	CCN		Butedale		-999	-999
5	NC	CCN		Green		-999	-999
5	NC	CCN		Khutze		-999	-999
5	NC	CCN		Klekane		-999	-999
5	NC	CCN		Kynoch	16	1	1
5	NC	CCN		Sheep Passage	23	1	1
5	NC	CCN		Tolmie		-999	-999
5	NC	CCN		Whalen		-999	-999
5	NC	CCN	N3	Price		-999	-999
5	NC	CCN		Roderick		-999	-999
5	NC	CCN		Swindle	1	1	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	DEER		
				Zipefile name:		Deer_WR_Mid_Coast	MoE-Focal Species Inventory
1=YES;	-99=NO DATA			Shapefile name:	#Obser.	Deer_wr_mid_coast	
5	NC	CCN	N4	Don Peninsula	9	1	1
5	NC	CCN		Ellerslie	25	1	1
5	NC	CCN		Roscoe	17	1	1
5	NC	CCN		Yeo		-999	-999
5	NC	CCN	N5	Braden	27	1	1
5	NC	CCN		King Island	19	1	1
5	NC	CCS		Labouchere	18	1	1
5	NC	CCN		Nascall	16	1	1
5	NC	CCS	N6	Dean	9	1	1
5	NC	CCS		Jump Acrross	5	1	1
5	NC	CCN		Lower Kimsquit	14	1	1
5	NC	CCN		Sutslem/Skowquiltz	17	1	1
5	NC	CCN		Upper Kimsquit	8	1	1
5	NC	CCS	N7	Atnarko		-999	-999
5	NC	CCS		Crag	2	1	1
5	NC	CCS		Nechako		-999	-999
5	NC	CCS		Sigulat		-999	-999
5	NC	CCS		Young	1	1	-999
5	NC	CCN	N8	Outer Coast Islands		-999	-999
5	NC	CCN	N9	Denny		-999	-999
5	NC	CCN		Evans	1	1	-999
5	NC	CCN		Hunter		-999	-999
5	NC	CCN	N10	Clyak	20	1	1
5	NC	CCN		Kwatna/Quatlena	17	1	1
5	NC	CCN		Nootum/Koeye		-999	-999
5	NC	CCS		Twin	6	1	1
5	NC	CCS	N11	Clayton	10	1	1
5	NC	CCS		Smitley/Noeick	7	1	-999
5	NC	CCS		South Bentinck	3	1	1
5	NC	CCS		Taleomey/Asseek	5	1	-999
5	NC	CCS	N12	Ape	1	1	-999
5	NC	CCS		Bella Coola	8	1	1
5	NC	CCS		Nusatsum	4	1	1
5	NC	CCS		Saloompt	16	1	1
5	NC	CCS		Talchako/Gyllenspetz	4	1	1
5	NC	CCN	N13	Calvert		-999	-999
5	NC	CCS	N14	Chukwalla/Kibella	24	1	1
5	NC	CCS		Doos/Dallery	9	1	1
5	NC	CCS		Kilippi	1	1	1
1	NC	CCS		Machmell	8	1	1
1	NC	CCS		Neechanz	9	-999	1
5	NC	CCN		Owikeno	14	1	1
5	NC	CCN	N15	Sheemahant	10	1	1
5	NC	CCS		Sumquolt	6	1	1
5	NC	CCS		Washwash	6	1	-999
5	NC	CCN	N16	Draney		-999	-999
5	NC	CCN		Fish Egg		-999	-999
5	NC	CCN		Johnston (DMC)	1	1	-999
5	NC	CCN		Nekite	5	1	-999
5	SC	CCS	S1	Draney	8	1	-999
5	SC	CCS		Nekite	13	1	-999
5	SC	CCS		Smith Sound		-999	-999
5	SC	CCS		Smokehouse	12	1	-999
1	SC	CCS	S2	Lower Kingcome		-999	-999
1	SC	CCS		Seymour		-999	-999
1	SC	CCS		Upper Kingcome		-999	-999
1	SC	CCS		Wakeman		-999	-999
1	SC	CCS	S3	Franklin		-999	-999
1	SC	CCS		Klinkaklini Glacier		-999	-999
1	SC	CCS		Lower Klinaklini		-999	-999
1	SC	CCS		Sim		-999	-999
5	SC	CCS	S4	Middle Klinaklini		-999	-999
5	SC	CCS		Upper Klinaklini		-999	-999
1	SC	CCS	S5	Allison		-999	-999
1	SC	CCS		Belize		-999	-999
1	SC	CCS		Huaskin		-999	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	DEER		
				Zipefile name:		Deer_WR_Mid_Coast	MoE-Focal Species Inventory
1=YES;	-99=NO DATA			Shapefile name:	#Obser.	Deer_wr_mid_coast	
1	SC	CCS		Walker		-999	-999
1	SC	CCS	S6	Charles		-999	-999
1	SC	CCS		Miriam		-999	-999
1	SC	CCS		Snowdrift		-999	-999
1	SC	CCS	S7	Broughton		-999	-999
1	SC	CCS		Gilford		-999	-999
1	SC	CCS	S8	Ahnuhati-Kwalate		-999	-999
1	SC	CCS		Ahta		-999	-999
1	SC	CCS		Kakweiken		-999	-999
1	SC	CCS	S9	Knight East		-999	-999
1	SC	CCS		Lull-Sallie		-999	-999
2	SC	CCS	S10	Estero		-999	-999
1	SC	CCS		Fulmore		-999	-999
1	SC	CCS		Gray		-999	-999
1	SC	CCS		Thurlow		-999	-999
1	SC	CCS	S11	Phillips		-999	-999
2	SC	CCS		Stafford		-999	-999

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit		ELK	
				Zipefile name:		Elk_final_overlap	MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Elk_final_overlap	
6	NC	NC	1	Anyox		-999	-999
6	NC	NC	2	Aristazabal		-999	-999
6	NC	NC	3	Banks		-999	-999
6	NC	NC	4	Belle Bay		-999	-999
6	NC	NC	5	Big Falls		-999	-999
6	NC	NC	6	Bishop (DNC)		-999	-999
6	NC	NC	7	Brown		-999	-999
6	NC	NC	8	Campania		-999	-999
6	NC	NC	9	Captain		-999	-999
6	NC	NC	10	Chambers		-999	-999
6	NC	NC	11	Crab		-999	-999
6	NC	NC	12	Dundas		-999	-999
6	NC	NC	13	Gil		-999	-999
6	NC	NC	14	Gribbell		-999	-999
6	NC	NC	15	Hartley		-999	-999
6	NC	NC	16	Hawkes South		-999	-999
6	NC	NC	17	Hevenor		-999	-999
6	NC	NC	18	Johnston		-999	-999
6	NC	NC	19	Kainen		-999	-999
6	NC	NC	20	Khtada		-999	-999
6	NC	NC	21	Khutzeymateen		-999	-999
6	NC	NC	22	Khyex		-999	-999
6	NC	NC	23	Kiltuish		-999	-999
6	NC	NC	24	Kitkiata		-999	-999
6	NC	NC	25	Kitsault		-999	-999
6	NC	NC	26	Kshwan		-999	-999
6	NC	NC	27	Kumealon		-999	-999
6	NC	NC	28	Kwinamass		-999	-999
6	NC	NC	29	Kwinamuck		-999	-999
6	NC	NC	30	Marmot		-999	-999
6	NC	NC	31	McCauley		-999	-999
6	NC	NC	32	Monckton		-999	-999
6	NC	NC	33	Observatory East		-999	-999
6	NC	NC	34	Observatory West		-999	-999
6	NC	NC	35	Olh		-999	-999
6	NC	NC	36	Pa'aat		-999	-999
6	NC	NC	37	Pearse		-999	-999
6	NC	NC	38	Porcher		-999	-999
6	NC	NC	39	Quottoon		-999	-999
6	NC	NC	40	Red Bluff		-999	-999
6	NC	NC	41	Scotia		-999	-999
6	NC	NC	42	Skeena Islands		-999	-999
6	NC	NC	43	Somerville		-999	-999
6	NC	NC	44	Sparkling		-999	-999
6	NC	NC	45	Stagoo		-999	-999
6	NC	NC	46	Stephens		-999	-999
6	NC	NC	47	Triumph		-999	-999
6	NC	NC	48	Trutch		-999	-999
6	NC	NC	49	Tuck		-999	-999
6	NC	NC	50	Union		-999	-999
5	NC	CCN	N1	Chapple		-999	-999
5	NC	CCN		Helmcken		-999	-999
5	NC	CCN		Laredo		-999	-999
5	NC	CCN		Surf		-999	-999
5	NC	CCN	N2	Aaltanhash		-999	-999
5	NC	CCN		Butedale		-999	-999
5	NC	CCN		Green		-999	-999
5	NC	CCN		Khutze		-999	-999
5	NC	CCN		Klekane		-999	-999
5	NC	CCN		Kynoch		-999	-999
5	NC	CCN		Sheep Passage		-999	-999
5	NC	CCN		Tolmie		-999	-999
5	NC	CCN		Whalen		-999	-999
5	NC	CCN	N3	Price		-999	-999
5	NC	CCN		Roderick		-999	-999
5	NC	CCN		Swindle		-999	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit		ELK	
				Zipefile name:		Elk_final_overlap	MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Elk_final_overlap	
5	NC	CCN	N4	Don Peninsula		-999	-999
5	NC	CCN		Ellerslie		-999	-999
5	NC	CCN		Roscoe		-999	-999
5	NC	CCN		Yeo		-999	-999
5	NC	CCN	N5	Braden		-999	-999
5	NC	CCN		King Island		-999	-999
5	NC	CCS		Labouchere		-999	-999
5	NC	CCN		Nascall		-999	-999
5	NC	CCS	N6	Dean		-999	-999
5	NC	CCS		Jump Acrross		-999	-999
5	NC	CCN		Lower Kimsquit		-999	-999
5	NC	CCN		Sutslem/Skowquiltz		-999	-999
5	NC	CCN		Upper Kimsquit		-999	-999
5	NC	CCS	N7	Atnarko		-999	-999
5	NC	CCS		Crag		-999	-999
5	NC	CCS		Nechako		-999	-999
5	NC	CCS		Sigulat		-999	-999
5	NC	CCS		Young		-999	-999
5	NC	CCN	N8	Outer Coast Islands		-999	-999
5	NC	CCN	N9	Denny		-999	-999
5	NC	CCN		Evans		-999	-999
5	NC	CCN		Hunter		-999	-999
5	NC	CCN	N10	Clyak		-999	-999
5	NC	CCN		Kwatna/Quatlena		-999	-999
5	NC	CCN		Nootum/Koeye		-999	-999
5	NC	CCS		Twin		-999	-999
5	NC	CCS	N11	Clayton		-999	-999
5	NC	CCS		Smitley/Noeick		-999	-999
5	NC	CCS		South Bentinck		-999	-999
5	NC	CCS		Taleomey/Asseek		-999	-999
5	NC	CCS	N12	Ape	2	1	-999
5	NC	CCS		Bella Coola	15	1	1
5	NC	CCS		Nusatsum		-999	1
5	NC	CCS		Saloompt	8	1	1
5	NC	CCS		Talchako/Gyllenspetz	7	1	1
5	NC	CCN	N13	Calvert		-999	-999
5	NC	CCS	N14	Chukwalla/Kibella		-999	-999
5	NC	CCS		Doos/Dallery		-999	-999
5	NC	CCS		Kilippi		-999	-999
1	NC	CCS		Machmell		-999	-999
1	NC	CCS		Neechanz		-999	-999
5	NC	CCN		Owikeno		-999	-999
5	NC	CCN	N15	Sheemahant		-999	-999
5	NC	CCS		Sumquolt		-999	-999
5	NC	CCS		Washwash		-999	-999
5	NC	CCN	N16	Draney		-999	-999
5	NC	CCN		Fish Egg		-999	-999
5	NC	CCN		Johnston (DMC)		-999	-999
5	NC	CCN		Nekite		-999	-999
5	SC	CCS	S1	Draney		-999	-999
5	SC	CCS		Nekite		-999	-999
5	SC	CCS		Smith Sound		-999	-999
5	SC	CCS		Smokehouse		-999	-999
1	SC	CCS	S2	Lower Kingcome		-999	-999
1	SC	CCS		Seymour		-999	-999
1	SC	CCS		Upper Kingcome		-999	-999
1	SC	CCS		Wakeman		-999	-999
1	SC	CCS	S3	Franklin		-999	-999
1	SC	CCS		Klinkaklini Glacier		-999	-999
1	SC	CCS		Lower Klinaklini		-999	-999
1	SC	CCS		Sim		-999	-999
5	SC	CCS	S4	Middle Klinaklini		-999	-999
5	SC	CCS		Upper Klinaklini		-999	-999
1	SC	CCS	S5	Allison		-999	-999
1	SC	CCS		Belize		-999	-999
1	SC	CCS		Huaskin		-999	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit		ELK	
				Zipefile name:		Elk_final_overlap	MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Elk_final_overlap	
1	SC	CCS		Walker		-999	-999
1	SC	CCS	S6	Charles		-999	-999
1	SC	CCS		Miriam		-999	-999
1	SC	CCS		Snowdrift		-999	-999
1	SC	CCS	S7	Broughton		-999	-999
1	SC	CCS		Gilford		-999	-999
1	SC	CCS	S8	Ahnuhati-Kwalate		-999	-999
1	SC	CCS		Ahta		-999	-999
1	SC	CCS		Kakweiken		-999	-999
1	SC	CCS	S9	Knight East		-999	-999
1	SC	CCS		Lull-Sallie		-999	-999
2	SC	CCS	S10	Estero		-999	-999
1	SC	CCS		Fulmore		-999	-999
1	SC	CCS		Gray		-999	-999
1	SC	CCS		Thurlow		-999	-999
1	SC	CCS	S11	Phillips		-999	-999
2	SC	CCS		Stafford		-999	-999

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH							
				Zipefile name:	Fish		HVFH_Nov23_06		MoE_DFO_fisheries_sensitive_watersheds		Quality_Lakes_Midcoast_qfsi_dmc	
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Fish	#Obser.	HVFH_Nov23_06	# Obser.	Moe_dfo_fisheries_sensitive_watersheds	# Obser.	Qfsi_dmc
6	NC	NC	1	Anyox		-999		-999		-999		-999
6	NC	NC	2	Aristazabal	137	1		-999		-999		-999
6	NC	NC	3	Banks		-999		-999		-999		-999
6	NC	NC	4	Belle Bay		-999		-999		-999		-999
6	NC	NC	5	Big Falls		-999		-999		-999		-999
6	NC	NC	6	Bishop (DNC)	6	1		-999		-999		-999
6	NC	NC	7	Brown		-999		-999		-999		-999
6	NC	NC	8	Campania	1	1		-999		-999		-999
6	NC	NC	9	Captain		-999		-999		-999		-999
6	NC	NC	10	Chambers		-999		-999		-999		-999
6	NC	NC	11	Crab		-999		-999		-999		-999
6	NC	NC	12	Dundas		-999		-999		-999		-999
6	NC	NC	13	Gil		-999		-999		-999		-999
6	NC	NC	14	Gribbell	6	1		-999		-999		-999
6	NC	NC	15	Hartley		-999		-999		-999		-999
6	NC	NC	16	Hawkes South	8	1		-999		-999		-999
6	NC	NC	17	Hevenor		-999		-999		-999		-999
6	NC	NC	18	Johnston (DNC)		-999		-999		-999		-999
6	NC	NC	19	Kainen		-999		-999		-999		-999
6	NC	NC	20	Khtada		-999		-999		-999		-999
6	NC	NC	21	Khutzeymateen		-999		-999		-999		-999
6	NC	NC	22	Khyex		-999		-999		-999		-999
6	NC	NC	23	Kiltuish	2	1		-999		-999		-999
6	NC	NC	24	Kitkiata		-999		-999		-999		-999
6	NC	NC	25	Kitsault		-999		-999		-999		-999
6	NC	NC	26	Kshwan		-999		-999		-999		-999
6	NC	NC	27	Kumealon		-999		-999		-999		-999
6	NC	NC	28	Kwinamass		-999		-999		-999		-999
6	NC	NC	29	Kwinamuck		-999		-999		-999		-999
6	NC	NC	30	Marmot (DNC)		-999		-999		-999		-999
6	NC	NC	31	McCauley		-999		-999		-999		-999
6	NC	NC	32	Monckton		-999		-999		-999		-999
6	NC	NC	33	Observatory East		-999		-999		-999		-999
6	NC	NC	34	Observatory West		-999		-999		-999		-999
6	NC	NC	35	Olh		-999		-999		-999		-999
6	NC	NC	36	Pa'aat		-999		-999		-999		-999
6	NC	NC	37	Pearse		-999		-999		-999		-999
6	NC	NC	38	Porcher		-999		-999		-999		-999
6	NC	NC	39	Quottoon		-999		-999		-999		-999
6	NC	NC	40	Red Bluff		-999		-999		-999		-999
6	NC	NC	41	Scotia		-999		-999		-999		-999
6	NC	NC	42	Skeena Islands		-999		-999		-999		-999
6	NC	NC	43	Somerville		-999		-999		-999		-999
6	NC	NC	44	Sparkling		-999		-999		-999		-999
6	NC	NC	45	Stagoo		-999		-999		-999		-999
6	NC	NC	46	Stephens		-999		-999		-999		-999
6	NC	NC	47	Triumph	3	1		-999		-999		-999
6	NC	NC	48	Trutch		-999		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH							
				Zipefile name:		Fish		HVFH_Nov23_06		MoE_DFO_fisheries_sensitive_watersheds		Quality_Lakes_Midcoast_qfsi_dmc
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Fish	#Obser.	HVFH_Nov23_06	# Obser.	Moe_dfo_fisheries_sensitive_watersheds	# Obser.	Qfsi_dmc
6	NC	NC	49	Tuck		-999		-999		-999		-999
6	NC	NC	50	Union		-999		-999		-999		-999
5	NC	CCN	N1	Chapple	32	1		1	8	1		-999
5	NC	CCN		Helmcken	35	1		1	1	1		-999
5	NC	CCN		Laredo	80	1		1	11	1		-999
5	NC	CCN		Surf	83	1		1	4	1		-999
5	NC	CCN	N2	Aaltanhash	21	1		1	3	1		-999
5	NC	CCN		Butedale	25	1		1	1	1		-999
5	NC	CCN		Green	25	1		1	6	1		-999
5	NC	CCN		Khutze	19	1		1	3	1		-999
5	NC	CCN		Klekane	11	1		1	2	1		-999
5	NC	CCN		Kynoch	26	1		1	1	1	5	1
5	NC	CCN		Sheep Passage	8	1		1	1	1	3	1
5	NC	CCN		Tolmie	3	1		1	4	1		-999
5	NC	CCN		Whalen	68	1		1	2	1		-999
5	NC	CCN	N3	Price	3	1		1		-999		-999
5	NC	CCN		Roderick	222	1		1	1	1	3	1
5	NC	CCN		Swindle	39	1		1	1	1		-999
5	NC	CCN	N4	Don Peninsula	55	1		1	2	1	3	1
5	NC	CCN		Ellerslie	111	1		1	1	1	9	1
5	NC	CCN		Roscoe	53	1		1	2	1	9	1
5	NC	CCN		Yeo	71	1		1	1	1	1	1
5	NC	CCN	N5	Braden	89	1		1	2	1	3	1
5	NC	CCN		King Island	68	1		1		-999	1	1
5	NC	CCS		Labouchere	93	1		1		-999	1	1
5	NC	CCN		Nascall	35	1		1		-999	4	1
5	NC	CCS	N6	Dean	110	1		1	5	1		-999
5	NC	CCS		Jump Acrross	34	1		1		-999		-999
5	NC	CCN		Lower Kimsquit	148	1		1	10	1		-999
5	NC	CCN		Sutslem/Skowquiltz	41	1		1		-999		-999
5	NC	CCN		Upper Kimsquit	91	1		1	13	1	2	1
5	NC	CCS	N7	Atnarko	179	1		1	1	1	11	1
5	NC	CCS		Crag	28	1		1	1	1		-999
5	NC	CCS		Nechako	16	1		1		-999	1	1
5	NC	CCS		Sigulat	81	1		1		-999	8	1
5	NC	CCS		Young	1	1		1		-999		-999
5	NC	CCN	N8	Outer Coast Islands	1	1		1		-999		-999
5	NC	CCN	N9	Denny	34	1		1		-999	6	1
5	NC	CCN		Evans	36	1		1		-999	11	1
5	NC	CCN		Hunter	46	1		1		-999	9	1
5	NC	CCN	N10	Clyak	60	1		1	2	1	1	1
5	NC	CCN		Kwatna/Quatlena	216	1		1	4	1	5	1
5	NC	CCN		Nootum/Koeye	271	1		1	3	1	8	1
5	NC	CCS		Twin	35	1		1		-999		-999
5	NC	CCS	N11	Clayton	51	1		1		-999	1	1
5	NC	CCS		Smitley/Noeick	61	1		1		-999		-999
5	NC	CCS		South Bentinck		-999		1		-999		-999
5	NC	CCS		Taleomey/Asseek	96	1		1	3	1		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH							
				Zipefile name:		Fish	HVFH_Nov23_06		MoE_DFO_fisheries_sensitive_watersheds		Quality_Lakes_Midcoast_qfsi_dmc	
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Fish	#Obser.	HVFH_Nov23_06	# Obser.	Moe_dfo_fisheries_sensitive_watersheds	# Obser.	Qfsi_dmc
5	NC	CCS	N12	Ape	10	1		1		-999	1	1
5	NC	CCS		Bella Coola	223	1		1	1	1		-999
5	NC	CCS		Nusatsum	31	1		1	6	1		-999
5	NC	CCS		Saloompt	88	1		1	8	1		-999
5	NC	CCS		Talchako/Gyllenspetz	27	1		1	1	1		-999
5	NC	CCN	N13	Calvert	1	1		1		-999	3	1
5	NC	CCS	N14	Chukwalla/Kibella	127	1		1	3	1		-999
5	NC	CCS		Doos/Dallery	22	1		1	4	1		-999
5	NC	CCS		Kilippi		-999		1	2	1		-999
1	NC	CCS		Machmell	91	1		1	1	1	2	1
1	NC	CCS		Neechanz	13	1		1	4	1		-999
5	NC	CCN		Owikeno	30	1		1	4	1		-999
5	NC	CCN	N15	Sheemahant	16	1		1	4	1	1	1
5	NC	CCS		Sumquolt	56	1		1	1	1		-999
5	NC	CCS		Washwash	86	1		1	3	1		-999
5	NC	CCN	N16	Draney	12	1		1		-999	2	1
5	NC	CCN		Fish Egg	35	1		1		-999	7	1
5	NC	CCN		Johnston (DMC)	30	1		1	1	1	3	1
5	NC	CCN		Nekite	23	1		1		-999	1	1
5	SC	CCS	S1	Draney	17	1		1		-999		-999
5	SC	CCS		Nekite	89	1		1	2	1	1	1
5	SC	CCS		Smith Sound	13	1		1		-999	4	1
5	SC	CCS		Smokehouse	42	1		1	3	1	4	1
1	SC	CCS	S2	Lower Kingcome	119	1		1	3	1		-999
1	SC	CCS		Seymour	72	1		1	2	1		-999
1	SC	CCS		Upper Kingcome	121	1		1	1	1		-999
1	SC	CCS		Wakeman	191	1		1	5	1		-999
1	SC	CCS	S3	Franklin	62	1		1	2	1		-999
1	SC	CCS		Klinkaklini Glacier	17	1		1	1	1		-999
1	SC	CCS		Lower Klinaklini	269	1		1	1	1		-999
1	SC	CCS		Sim	43	1		1	3	1		-999
5	SC	CCS	S4	Middle Klinaklini	70	1		1	2	1		-999
5	SC	CCS		Upper Klinaklini	66	1		1		-999	2	1
1	SC	CCS	S5	Allison	330	1		1		-999		-999
1	SC	CCS		Belize	268	1		1	3	1		-999
1	SC	CCS		Huaskin	146	1		1	1	1		-999
1	SC	CCS		Walker		-999		1		-999		-999
1	SC	CCS	S6	Charles	36	1		1	1	1		-999
1	SC	CCS		Miriam	51	1		1		-999		-999
1	SC	CCS		Snowdrift	92	1		1	2	1		-999
1	SC	CCS	S7	Broughton	51	1		1		-999		-999
1	SC	CCS		Gilford	184	1		1	5	1		-999
1	SC	CCS	S8	Ahnuhati-Kwalate	92	1		1	2	1		-999
1	SC	CCS		Ahta	91	1		1	2	1		-999
1	SC	CCS		Kakweiken	163	1		1	3	1		-999
1	SC	CCS	S9	Knight East	139	1		1	1	1		-999
1	SC	CCS		Lull-Sallie	148	1		1	5	1		-999
2	SC	CCS	S10	Estero	16	1		1	1	1		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH							
				Zipefile name:		Fish	HVFH_Nov23_06		MoE_DFO_fisheries_sensitive_watersheds		Quality_Lakes_Midcoast_qfsi_dmc	
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Fish	#Obser.	HVFH_Nov23_06	# Obser.	Moe_dfo_fisheries_sensitive_watersheds	# Obser.	Qfsi_dmc
1	SC	CCS		Fulmore	293	1	1		18	1		-999
1	SC	CCS		Gray	54	1	1		5	1		-999
1	SC	CCS		Thurlow	97	1	1		16	1		-999
1	SC	CCS	S11	Phillips	115	1	1		1	1		-999
2	SC	CCS		Stafford	222	1	1		2	1		-999

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Kincolith					
1=YES;	-999=NO DATA			Shapefile name:	Fllopl_order2	Floodpl_ord2	Floodpl_ord2_buf_kinco	Fllodpl_kin_or3	Fllodpl_kin_or3_buf	Kinco_lkbuf_order1
6	NC	NC	1	Anyox						
6	NC	NC	2	Aristazabal						
6	NC	NC	3	Banks	----------Existing records are ouside BC Coast Ministry Order Boundaries----------					
6	NC	NC	4	Belle Bay						
6	NC	NC	5	Big Falls						
6	NC	NC	6	Bishop (DNC)						
6	NC	NC	7	Brown						
6	NC	NC	8	Campania						
6	NC	NC	9	Captain						
6	NC	NC	10	Chambers						
6	NC	NC	11	Crab						
6	NC	NC	12	Dundas						
6	NC	NC	13	Gil						
6	NC	NC	14	Gribbell						
6	NC	NC	15	Hartley						
6	NC	NC	16	Hawkes South						
6	NC	NC	17	Hevenor						
6	NC	NC	18	Johnston (DNC)						
6	NC	NC	19	Kainen						
6	NC	NC	20	Khtada						
6	NC	NC	21	Khutzeymateen						
6	NC	NC	22	Khyex						
6	NC	NC	23	Kiltuish						
6	NC	NC	24	Kitkiata						
6	NC	NC	25	Kitsault						
6	NC	NC	26	Kshwan						
6	NC	NC	27	Kumealon						
6	NC	NC	28	Kwinamass						
6	NC	NC	29	Kwinamuck						
6	NC	NC	30	Marmot (DNC)						
6	NC	NC	31	McCauley						
6	NC	NC	32	Monckton						
6	NC	NC	33	Observatory East						
6	NC	NC	34	Observatory West						
6	NC	NC	35	Olh						
6	NC	NC	36	Pa'aat						
6	NC	NC	37	Pearse						
6	NC	NC	38	Porcher						
6	NC	NC	39	Quottoon						
6	NC	NC	40	Red Bluff						
6	NC	NC	41	Scotia						
6	NC	NC	42	Skeena Islands						
6	NC	NC	43	Somerville						

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Kincolith					
1=YES;	-999=NO DATA			Shapefile name:	Fllopl_order2	Floodpl_ord2	Floodpl_ord2_buf_kinco	Fllodpl_kin_or3	Fllodpl_kin_or3_buf	Kinco_lkbuf_order1
6	NC	NC	44	Sparkling						
6	NC	NC	45	Stagoo						
6	NC	NC	46	Stephens						
6	NC	NC	47	Triumph						
6	NC	NC	48	Trutch						
6	NC	NC	49	Tuck	----------Existing records are ouside BC Coast Ministry Order Boundaries----------					
6	NC	NC	50	Union						
5	NC	CCN	N1	Chapple						
5	NC	CCN		Helmcken						
5	NC	CCN		Laredo						
5	NC	CCN		Surf						
5	NC	CCN	N2	Aaltanhash						
5	NC	CCN		Butedale						
5	NC	CCN		Green						
5	NC	CCN		Khutze						
5	NC	CCN		Klekane						
5	NC	CCN		Kynoch						
5	NC	CCN		Sheep Passage						
5	NC	CCN		Tolmie						
5	NC	CCN		Whalen						
5	NC	CCN	N3	Price						
5	NC	CCN		Roderick						
5	NC	CCN		Swindle						
5	NC	CCN	N4	Don Peninsula						
5	NC	CCN		Ellerslie						
5	NC	CCN		Roscoe						
5	NC	CCN		Yeo						
5	NC	CCN	N5	Braden						
5	NC	CCN		King Island						
5	NC	CCS		Labouchere						
5	NC	CCN		Nascall						
5	NC	CCS	N6	Dean						
5	NC	CCS		Jump Acrross						
5	NC	CCN		Lower Kimsquit						
5	NC	CCN		Sutslem/Skowquiltz						
5	NC	CCN		Upper Kimsquit						
5	NC	CCS	N7	Atnarko						
5	NC	CCS		Crag						
5	NC	CCS		Nechako						
5	NC	CCS		Sigulat						
5	NC	CCS		Young						
5	NC	CCN	N8	Outer Coast Islands						
5	NC	CCN	N9	Denny						

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Kincolith					
1=YES;	-999=NO DATA			Shapefile name:	Fllopl_order2	Floodpl_ord2	Floodpl_ord2_buf_kinco	Fllodpl_kin_or3	Fllodpl_kin_or3_buf	Kinco_lkbuf_order1
5	NC	CCN		Evans						
5	NC	CCN		Hunter						
5	NC	CCN	N10	Clyak						
5	NC	CCN		Kwatna/Quatlena						
5	NC	CCN		Nootum/Koeye						
5	NC	CCS		Twin						
5	NC	CCS	N11	Clayton						
5	NC	CCS		Smitley/Noeick						
5	NC	CCS		South Bentinck	----------Existing records are ouside BC Coast Ministry Order Boundaries----------					
5	NC	CCS		Taleomey/Asseek						
5	NC	CCS	N12	Ape						
5	NC	CCS		Bella Coola						
5	NC	CCS		Nusatsum						
5	NC	CCS		Saloompt						
5	NC	CCS		Talchako/Gyllenspetz						
5	NC	CCN	N13	Calvert						
5	NC	CCS	N14	Chukwalla/Kibella						
5	NC	CCS		Doos/Dallery						
5	NC	CCS		Kilippi						
1	NC	CCS		Machmell						
1	NC	CCS		Neechanz						
5	NC	CCN		Owikeno						
5	NC	CCN	N15	Sheemahant						
5	NC	CCS		Sumquolt						
5	NC	CCS		Washwash						
5	NC	CCN	N16	Draney						
5	NC	CCN		Fish Egg						
5	NC	CCN		Johnston (DMC)						
5	NC	CCN		Nekite						
5	SC	CCS	S1	Draney						
5	SC	CCS		Nekite						
5	SC	CCS		Smith Sound						
5	SC	CCS		Smokehouse						
1	SC	CCS	S2	Lower Kingcome						
1	SC	CCS		Seymour						
1	SC	CCS		Upper Kingcome						
1	SC	CCS		Wakeman						
1	SC	CCS	S3	Franklin						
1	SC	CCS		Klinkaklini Glacier						
1	SC	CCS		Lower Klinaklini						
1	SC	CCS		Sim						
5	SC	CCS	S4	Middle Klinaklini						
5	SC	CCS		Upper Klinaklini						

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Kincolith					
1=YES;	-999=NO DATA			Shapefile name:	Fllopl_order2	Floodpl_ord2	Floodpl_ord2_buf_kinco	Fllodpl_kin_or3	Fllodpl_kin_or3_buf	Kinco_lkbuf_order1
1	SC	CCS	S5	Allison						
1	SC	CCS		Belize						
1	SC	CCS		Huaskin						
1	SC	CCS		Walker						
1	SC	CCS	S6	Charles						
1	SC	CCS		Miriam						
1	SC	CCS		Snowdrift						
1	SC	CCS	S7	Broughton						
1	SC	CCS		Gilford						
1	SC	CCS	S8	Ahnuhati-Kwalate						
1	SC	CCS		Ahta						
1	SC	CCS		Kakweiken						
1	SC	CCS	S9	Knight East	----------Existing records are ouside BC Coast Ministry Order Boundaries----------					
1	SC	CCS		Lull-Sallie						
2	SC	CCS	S10	Estero						
1	SC	CCS		Fulmore						
1	SC	CCS		Gray						
1	SC	CCS		Thurlow						
1	SC	CCS	S11	Phillips						
2	SC	CCS		Stafford						

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH				
				Zipefile name:	HVFH_Kincolith				
1=YES;	-999=NO DATA			Shapefile name:	Kinco_streams_order1	Kinco_streams_order2	Kinco_streams_order3	Welt_hvfhstreams	Welt_hvfhstreams_buf
6	NC	NC	1	Anyox					
6	NC	NC	2	Aristazabal					
6	NC	NC	3	Banks	----------Existing records are ouside BC Coast Ministry Order Boundaries----------				
6	NC	NC	4	Belle Bay					
6	NC	NC	5	Big Falls					
6	NC	NC	6	Bishop (DNC)					
6	NC	NC	7	Brown					
6	NC	NC	8	Campania					
6	NC	NC	9	Captain					
6	NC	NC	10	Chambers					
6	NC	NC	11	Crab					
6	NC	NC	12	Dundas					
6	NC	NC	13	Gil					
6	NC	NC	14	Gribbell					
6	NC	NC	15	Hartley					
6	NC	NC	16	Hawkes South					
6	NC	NC	17	Hevenor					
6	NC	NC	18	Johnston (DNC)					
6	NC	NC	19	Kainen					
6	NC	NC	20	Khtada					
6	NC	NC	21	Khutzeymateen					
6	NC	NC	22	Khyex					
6	NC	NC	23	Kiltuish					
6	NC	NC	24	Kitkiata					
6	NC	NC	25	Kitsault					
6	NC	NC	26	Kshwan					
6	NC	NC	27	Kumealon					
6	NC	NC	28	Kwinamass					
6	NC	NC	29	Kwinamuck					
6	NC	NC	30	Marmot (DNC)					
6	NC	NC	31	McCauley					
6	NC	NC	32	Monckton					
6	NC	NC	33	Observatory East					
6	NC	NC	34	Observatory West					
6	NC	NC	35	Olh					
6	NC	NC	36	Pa'aat					
6	NC	NC	37	Pearse					
6	NC	NC	38	Porcher					
6	NC	NC	39	Quottoon					
6	NC	NC	40	Red Bluff					
6	NC	NC	41	Scotia					

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH				
				Zipefile name:	HVFH_Kincolith				
1=YES;	-999=NO DATA			Shapefile name:	Kinco_streams_order1	Kinco_streams_order2	Kinco_streams_order3	Welt_hvfhstreams	Welt_hvfhstreams_buf
6	NC	NC	42	Skeena Islands					
6	NC	NC	43	Somerville					
6	NC	NC	44	Sparkling					
6	NC	NC	45	Stagoo					
6	NC	NC	46	Stephens					
6	NC	NC	47	Triumph					
6	NC	NC	48	Trutch					
6	NC	NC	49	Tuck	----------Existing records are ouside BC Coast Ministry Order Boundaries----------				
6	NC	NC	50	Union					
5	NC	CCN	N1	Chapple					
5	NC	CCN		Helmcken					
5	NC	CCN		Laredo					
5	NC	CCN		Surf					
5	NC	CCN	N2	Aaltanhash					
5	NC	CCN		Butedale					
5	NC	CCN		Green					
5	NC	CCN		Khutze					
5	NC	CCN		Klekane					
5	NC	CCN		Kynoch					
5	NC	CCN		Sheep Passage					
5	NC	CCN		Tolmie					
5	NC	CCN		Whalen					
5	NC	CCN	N3	Price					
5	NC	CCN		Roderick					
5	NC	CCN		Swindle					
5	NC	CCN	N4	Don Peninsula					
5	NC	CCN		Ellerslie					
5	NC	CCN		Roscoe					
5	NC	CCN		Yeo					
5	NC	CCN	N5	Braden					
5	NC	CCN		King Island					
5	NC	CCS		Labouchere					
5	NC	CCN		Nascall					
5	NC	CCS	N6	Dean					
5	NC	CCS		Jump Acrross					
5	NC	CCN		Lower Kimsquit					
5	NC	CCN		Sutslem/Skowquiltz					
5	NC	CCN		Upper Kimsquit					
5	NC	CCS	N7	Atnarko					
5	NC	CCS		Crag					
5	NC	CCS		Nechako					

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH				
				Zipefile name:	HVFH_Kincolith				
1=YES;	-999=NO DATA			Shapefile name:	Kinco_streams_order1	Kinco_streams_order2	Kinco_streams_order3	Welt_hvfhstreams	Welt_hvfhstreams_buf
5	NC	CCS		Sigulat					
5	NC	CCS		Young					
5	NC	CCN	N8	Outer Coast Islands					
5	NC	CCN	N9	Denny					
5	NC	CCN		Evans					
5	NC	CCN		Hunter					
5	NC	CCN	N10	Clyak					
5	NC	CCN		Kwatna/Quatlena					
5	NC	CCN		Nootum/Koeye					
5	NC	CCS		Twin					
5	NC	CCS	N11	Clayton					
5	NC	CCS		Smitley/Noeick					
5	NC	CCS		South Bentinck	----------Existing records are ouside BC Coast Ministry Order Boundaries----------				
5	NC	CCS		Taleomey/Asseek					
5	NC	CCS	N12	Ape					
5	NC	CCS		Bella Coola					
5	NC	CCS		Nusatsum					
5	NC	CCS		Saloompt					
5	NC	CCS		Talchako/Gyllenspetz					
5	NC	CCN	N13	Calvert					
5	NC	CCS	N14	Chukwalla/Kibella					
5	NC	CCS		Doos/Dallery					
5	NC	CCS		Kilippi					
1	NC	CCS		Machmell					
1	NC	CCS		Neechanz					
5	NC	CCN		Owikeno					
5	NC	CCN	N15	Sheemahant					
5	NC	CCS		Sumquolt					
5	NC	CCS		Washwash					
5	NC	CCN	N16	Draney					
5	NC	CCN		Fish Egg					
5	NC	CCN		Johnston (DMC)					
5	NC	CCN		Nekite					
5	SC	CCS	S1	Draney					
5	SC	CCS		Nekite					
5	SC	CCS		Smith Sound					
5	SC	CCS		Smokehouse					
1	SC	CCS	S2	Lower Kingcome					
1	SC	CCS		Seymour					
1	SC	CCS		Upper Kingcome					
1	SC	CCS		Wakeman					

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH				
				Zipefile name:	HVFH_Kincolith				
1=YES;	-999=NO DATA			Shapefile name:	Kinco_streams_order1	Kinco_streams_order2	Kinco_streams_order3	Welt_hvfhstreams	Welt_hvfhstreams_buf
1	SC	CCS	S3	Franklin					
1	SC	CCS		Klinkaklini Glacier					
1	SC	CCS		Lower Klinaklini					
1	SC	CCS		Sim					
5	SC	CCS	S4	Middle Klinaklini					
5	SC	CCS		Upper Klinaklini					
1	SC	CCS	S5	Allison					
1	SC	CCS		Belize					
1	SC	CCS		Huaskin					
1	SC	CCS		Walker					
1	SC	CCS	S6	Charles					
1	SC	CCS		Miriam					
1	SC	CCS		Snowdrift					
1	SC	CCS	S7	Broughton					
1	SC	CCS		Gilford					
1	SC	CCS	S8	Ahnuhati-Kwalate					
1	SC	CCS		Ahta					
1	SC	CCS		Kakweiken	----------Existing records are ouside BC Coast Ministry Order Boundaries----------				
1	SC	CCS	S9	Knight East					
1	SC	CCS		Lull-Sallie					
2	SC	CCS	S10	Estero					
1	SC	CCS		Fulmore					
1	SC	CCS		Gray					
1	SC	CCS		Thurlow					
1	SC	CCS	S11	Phillips					
2	SC	CCS		Stafford					

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Floodplains_toon	# Obser.	Floodpl_toon_bylake	# Obser.	Floodpl_toon_bylake_buf
6	NC	NC	1	Anyox		-999		-999		-999
6	NC	NC	2	Aristazabal		-999		-999		-999
6	NC	NC	3	Banks		-999		-999		-999
6	NC	NC	4	Belle Bay		-999		-999		-999
6	NC	NC	5	Big Falls		-999		-999		-999
6	NC	NC	6	Bishop (DNC)		-999		-999		-999
6	NC	NC	7	Brown		-999		-999		-999
6	NC	NC	8	Campania		-999		-999		-999
6	NC	NC	9	Captain		-999		-999		-999
6	NC	NC	10	Chambers		-999		-999		-999
6	NC	NC	11	Crab		-999		-999		-999
6	NC	NC	12	Dundas		-999		-999		-999
6	NC	NC	13	Gil		-999		-999		-999
6	NC	NC	14	Gribbell		-999		-999		-999
6	NC	NC	15	Hartley		-999		-999		-999
6	NC	NC	16	Hawkes South		-999		-999		-999
6	NC	NC	17	Hevenor		-999		-999		-999
6	NC	NC	18	Johnston (DNC)		-999		-999		-999
6	NC	NC	19	Kainen		-999		-999		-999
6	NC	NC	20	Khtada		-999		-999		-999
6	NC	NC	21	Khutzeymateen		-999		-999		-999
6	NC	NC	22	Khyex		-999		-999		-999
6	NC	NC	23	Kiltuish		-999		-999		-999
6	NC	NC	24	Kitkiata		-999		-999		-999
6	NC	NC	25	Kitsault		-999		-999		-999
6	NC	NC	26	Kshwan		-999		-999		-999
6	NC	NC	27	Kumealon		-999		-999		-999
6	NC	NC	28	Kwinamass		-999		-999		-999
6	NC	NC	29	Kwinamuck		-999		-999		-999
6	NC	NC	30	Marmot (DNC)		-999		-999		-999
6	NC	NC	31	McCauley		-999		-999		-999
6	NC	NC	32	Monckton		-999		-999		-999
6	NC	NC	33	Observatory East		-999		-999		-999
6	NC	NC	34	Observatory West		-999		-999		-999
6	NC	NC	35	Olh		-999		-999		-999
6	NC	NC	36	Pa'aat		-999		-999		-999
6	NC	NC	37	Pearse		-999		-999		-999
6	NC	NC	38	Porcher		-999		-999		-999
6	NC	NC	39	Quottoon	31	1	1	1	1	1
6	NC	NC	40	Red Bluff		-999		-999		-999
6	NC	NC	41	Scotia		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Floodplains_toon	# Obser.	Floodpl_toon_bylake	# Obser.	Floodpl_toon_bylake_buf
6	NC	NC	42	Skeena Islands		-999		-999		-999
6	NC	NC	43	Somerville		-999		-999		-999
6	NC	NC	44	Sparkling		-999		-999		-999
6	NC	NC	45	Stagoo		-999		-999		-999
6	NC	NC	46	Stephens		-999		-999		-999
6	NC	NC	47	Triumph		-999		-999		-999
6	NC	NC	48	Trutch		-999		-999		-999
6	NC	NC	49	Tuck		-999		-999		-999
6	NC	NC	50	Union		-999		-999		-999
5	NC	CCN	N1	Chapple		-999		-999		-999
5	NC	CCN		Helmcken		-999		-999		-999
5	NC	CCN		Laredo		-999		-999		-999
5	NC	CCN		Surf		-999		-999		-999
5	NC	CCN	N2	Aaltanhash		-999		-999		-999
5	NC	CCN		Butedale		-999		-999		-999
5	NC	CCN		Green		-999		-999		-999
5	NC	CCN		Khutze		-999		-999		-999
5	NC	CCN		Klekane		-999		-999		-999
5	NC	CCN		Kynoch		-999		-999		-999
5	NC	CCN		Sheep Passage		-999		-999		-999
5	NC	CCN		Tolmie		-999		-999		-999
5	NC	CCN		Whalen		-999		-999		-999
5	NC	CCN	N3	Price		-999		-999		-999
5	NC	CCN		Roderick		-999		-999		-999
5	NC	CCN		Swindle		-999		-999		-999
5	NC	CCN	N4	Don Peninsula		-999		-999		-999
5	NC	CCN		Ellerslie		-999		-999		-999
5	NC	CCN		Roscoe		-999		-999		-999
5	NC	CCN		Yeo		-999		-999		-999
5	NC	CCN	N5	Braden		-999		-999		-999
5	NC	CCN		King Island		-999		-999		-999
5	NC	CCS		Labouchere		-999		-999		-999
5	NC	CCN		Nascall		-999		-999		-999
5	NC	CCS	N6	Dean		-999		-999		-999
5	NC	CCS		Jump Acrross		-999		-999		-999
5	NC	CCN		Lower Kimsquit		-999		-999		-999
5	NC	CCN		Sutslem/Skowquiltz		-999		-999		-999
5	NC	CCN		Upper Kimsquit		-999		-999		-999
5	NC	CCS	N7	Atnarko		-999		-999		-999
5	NC	CCS		Crag		-999		-999		-999
5	NC	CCS		Nechako		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Floodplains_toon	# Obser.	Floodpl_toon_bylake	# Obser.	Floodpl_toon_bylake_buf
5	NC	CCS		Sigulat		-999		-999		-999
5	NC	CCS		Young		-999		-999		-999
5	NC	CCN	N8	Outer Coast Islands		-999		-999		-999
5	NC	CCN	N9	Denny		-999		-999		-999
5	NC	CCN		Evans		-999		-999		-999
5	NC	CCN		Hunter		-999		-999		-999
5	NC	CCN	N10	Clyak		-999		-999		-999
5	NC	CCN		Kwatna/Quatlena		-999		-999		-999
5	NC	CCN		Nootum/Koeye		-999		-999		-999
5	NC	CCS		Twin		-999		-999		-999
5	NC	CCS	N11	Clayton		-999		-999		-999
5	NC	CCS		Smitley/Noeick		-999		-999		-999
5	NC	CCS		South Bentinck		-999		-999		-999
5	NC	CCS		Taleomey/Asseek		-999		-999		-999
5	NC	CCS	N12	Ape		-999		-999		-999
5	NC	CCS		Bella Coola		-999		-999		-999
5	NC	CCS		Nusatsum		-999		-999		-999
5	NC	CCS		Saloompt		-999		-999		-999
5	NC	CCS		Talchako/Gyllenspetz		-999		-999		-999
5	NC	CCN	N13	Calvert		-999		-999		-999
5	NC	CCS	N14	Chukwalla/Kibella		-999		-999		-999
5	NC	CCS		Doos/Dallery		-999		-999		-999
5	NC	CCS		Kilippi		-999		-999		-999
1	NC	CCS		Machmell		-999		-999		-999
1	NC	CCS		Neechanz		-999		-999		-999
5	NC	CCN		Owikeno		-999		-999		-999
5	NC	CCN	N15	Sheemahant		-999		-999		-999
5	NC	CCS		Sumquolt		-999		-999		-999
5	NC	CCS		Washwash		-999		-999		-999
5	NC	CCN	N16	Draney		-999		-999		-999
5	NC	CCN		Fish Egg		-999		-999		-999
5	NC	CCN		Johnston (DMC)		-999		-999		-999
5	NC	CCN		Nekite		-999		-999		-999
5	SC	CCS	S1	Draney		-999		-999		-999
5	SC	CCS		Nekite		-999		-999		-999
5	SC	CCS		Smith Sound		-999		-999		-999
5	SC	CCS		Smokehouse		-999		-999		-999
1	SC	CCS	S2	Lower Kingcome		-999		-999		-999
1	SC	CCS		Seymour		-999		-999		-999
1	SC	CCS		Upper Kingcome		-999		-999		-999
1	SC	CCS		Wakeman		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Floodplains_toon	# Obser.	Floodpl_toon_bylake	# Obser.	Floodpl_toon_bylake_buf
1	SC	CCS	S3	Franklin		-999		-999		-999
1	SC	CCS		Klinkaklini Glacier		-999		-999		-999
1	SC	CCS		Lower Klinaklini		-999		-999		-999
1	SC	CCS		Sim		-999		-999		-999
5	SC	CCS	S4	Middle Klinaklini		-999		-999		-999
5	SC	CCS		Upper Klinaklini		-999		-999		-999
1	SC	CCS	S5	Allison		-999		-999		-999
1	SC	CCS		Belize		-999		-999		-999
1	SC	CCS		Huaskin		-999		-999		-999
1	SC	CCS		Walker		-999		-999		-999
1	SC	CCS	S6	Charles		-999		-999		-999
1	SC	CCS		Miriam		-999		-999		-999
1	SC	CCS		Snowdrift		-999		-999		-999
1	SC	CCS	S7	Broughton		-999		-999		-999
1	SC	CCS		Gilford		-999		-999		-999
1	SC	CCS	S8	Ahnuhati-Kwalate		-999		-999		-999
1	SC	CCS		Ahta		-999		-999		-999
1	SC	CCS		Kakweiken		-999		-999		-999
1	SC	CCS	S9	Knight East		-999		-999		-999
1	SC	CCS		Lull-Sallie		-999		-999		-999
2	SC	CCS	S10	Estero		-999		-999		-999
1	SC	CCS		Fulmore		-999		-999		-999
1	SC	CCS		Gray		-999		-999		-999
1	SC	CCS		Thurlow		-999		-999		-999
1	SC	CCS	S11	Phillips		-999		-999		-999
2	SC	CCS		Stafford		-999		-999		-999

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Floodpl_ord3_toon	# Obser.	Floodpl_toon_ord3_buf	# Obser.	Floodpl_toon_ord4
6	NC	NC	1	Anyox		-999		-999		-999
6	NC	NC	2	Aristazabal		-999		-999		-999
6	NC	NC	3	Banks		-999		-999		-999
6	NC	NC	4	Belle Bay		-999		-999		-999
6	NC	NC	5	Big Falls		-999		-999		-999
6	NC	NC	6	Bishop (DNC)		-999		-999		-999
6	NC	NC	7	Brown		-999		-999		-999
6	NC	NC	8	Campania		-999		-999		-999
6	NC	NC	9	Captain		-999		-999		-999
6	NC	NC	10	Chambers		-999		-999		-999
6	NC	NC	11	Crab		-999		-999		-999
6	NC	NC	12	Dundas		-999		-999		-999
6	NC	NC	13	Gil		-999		-999		-999
6	NC	NC	14	Gribbell		-999		-999		-999
6	NC	NC	15	Hartley		-999		-999		-999
6	NC	NC	16	Hawkes South		-999		-999		-999
6	NC	NC	17	Hevenor		-999		-999		-999
6	NC	NC	18	Johnston (DNC)		-999		-999		-999
6	NC	NC	19	Kainen		-999		-999		-999
6	NC	NC	20	Khtada		-999		-999		-999
6	NC	NC	21	Khutzeymateen		-999		-999		-999
6	NC	NC	22	Khyex		-999		-999		-999
6	NC	NC	23	Kiltuish		-999		-999		-999
6	NC	NC	24	Kitkiata		-999		-999		-999
6	NC	NC	25	Kitsault		-999		-999		-999
6	NC	NC	26	Kshwan		-999		-999		-999
6	NC	NC	27	Kumealon		-999		-999		-999
6	NC	NC	28	Kwinamass		-999		-999		-999
6	NC	NC	29	Kwinamuck		-999		-999		-999
6	NC	NC	30	Marmot (DNC)		-999		-999		-999
6	NC	NC	31	McCauley		-999		-999		-999
6	NC	NC	32	Monckton		-999		-999		-999
6	NC	NC	33	Observatory East		-999		-999		-999
6	NC	NC	34	Observatory West		-999		-999		-999
6	NC	NC	35	Olh		-999		-999		-999
6	NC	NC	36	Pa'aat		-999		-999		-999
6	NC	NC	37	Pearse		-999		-999		-999
6	NC	NC	38	Porcher		-999		-999		-999
6	NC	NC	39	Quottoon	10	1	4	1	18	1
6	NC	NC	40	Red Bluff		-999		-999		-999
6	NC	NC	41	Scotia		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Floodpl_ord3_toon	# Obser.	Floodpl_toon_ord3_buf	# Obser.	Floodpl_toon_ord4
6	NC	NC	42	Skeena Islands		-999		-999		-999
6	NC	NC	43	Somerville		-999		-999		-999
6	NC	NC	44	Sparkling		-999		-999		-999
6	NC	NC	45	Stagoo		-999		-999		-999
6	NC	NC	46	Stephens		-999		-999		-999
6	NC	NC	47	Triumph		-999		-999		-999
6	NC	NC	48	Trutch		-999		-999		-999
6	NC	NC	49	Tuck		-999		-999		-999
6	NC	NC	50	Union		-999		-999		-999
5	NC	CCN	N1	Chapple		-999		-999		-999
5	NC	CCN		Helmcken		-999		-999		-999
5	NC	CCN		Laredo		-999		-999		-999
5	NC	CCN		Surf		-999		-999		-999
5	NC	CCN	N2	Aaltanhash		-999		-999		-999
5	NC	CCN		Butedale		-999		-999		-999
5	NC	CCN		Green		-999		-999		-999
5	NC	CCN		Khutze		-999		-999		-999
5	NC	CCN		Klekane		-999		-999		-999
5	NC	CCN		Kynoch		-999		-999		-999
5	NC	CCN		Sheep Passage		-999		-999		-999
5	NC	CCN		Tolmie		-999		-999		-999
5	NC	CCN		Whalen		-999		-999		-999
5	NC	CCN	N3	Price		-999		-999		-999
5	NC	CCN		Roderick		-999		-999		-999
5	NC	CCN		Swindle		-999		-999		-999
5	NC	CCN	N4	Don Peninsula		-999		-999		-999
5	NC	CCN		Ellerslie		-999		-999		-999
5	NC	CCN		Roscoe		-999		-999		-999
5	NC	CCN		Yeo		-999		-999		-999
5	NC	CCN	N5	Braden		-999		-999		-999
5	NC	CCN		King Island		-999		-999		-999
5	NC	CCS		Labouchere		-999		-999		-999
5	NC	CCN		Nascall		-999		-999		-999
5	NC	CCS	N6	Dean		-999		-999		-999
5	NC	CCS		Jump Acrross		-999		-999		-999
5	NC	CCN		Lower Kimsquit		-999		-999		-999
5	NC	CCN		Sutslem/Skowquiltz		-999		-999		-999
5	NC	CCN		Upper Kimsquit		-999		-999		-999
5	NC	CCS	N7	Atnarko		-999		-999		-999
5	NC	CCS		Crag		-999		-999		-999
5	NC	CCS		Nechako		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Floodpl_ord3_toon	# Obser.	Floodpl_toon_ord3_buf	# Obser.	Floodpl_toon_ord4
5	NC	CCS		Sigulat		-999		-999		-999
5	NC	CCS		Young		-999		-999		-999
5	NC	CCN	N8	Outer Coast Islands		-999		-999		-999
5	NC	CCN	N9	Denny		-999		-999		-999
5	NC	CCN		Evans		-999		-999		-999
5	NC	CCN		Hunter		-999		-999		-999
5	NC	CCN	N10	Clyak		-999		-999		-999
5	NC	CCN		Kwatna/Quatlena		-999		-999		-999
5	NC	CCN		Nootum/Koeye		-999		-999		-999
5	NC	CCS		Twin		-999		-999		-999
5	NC	CCS	N11	Clayton		-999		-999		-999
5	NC	CCS		Smitley/Noeick		-999		-999		-999
5	NC	CCS		South Bentinck		-999		-999		-999
5	NC	CCS		Taleomey/Asseek		-999		-999		-999
5	NC	CCS	N12	Ape		-999		-999		-999
5	NC	CCS		Bella Coola		-999		-999		-999
5	NC	CCS		Nusatsum		-999		-999		-999
5	NC	CCS		Saloompt		-999		-999		-999
5	NC	CCS		Talchako/Gyllenspetz		-999		-999		-999
5	NC	CCN	N13	Calvert		-999		-999		-999
5	NC	CCS	N14	Chukwalla/Kibella		-999		-999		-999
5	NC	CCS		Doos/Dallery		-999		-999		-999
5	NC	CCS		Kilippi		-999		-999		-999
1	NC	CCS		Machmell		-999		-999		-999
1	NC	CCS		Neechanz		-999		-999		-999
5	NC	CCN		Owikeno		-999		-999		-999
5	NC	CCN	N15	Sheemahant		-999		-999		-999
5	NC	CCS		Sumquolt		-999		-999		-999
5	NC	CCS		Washwash		-999		-999		-999
5	NC	CCN	N16	Draney		-999		-999		-999
5	NC	CCN		Fish Egg		-999		-999		-999
5	NC	CCN		Johnston (DMC)		-999		-999		-999
5	NC	CCN		Nekite		-999		-999		-999
5	SC	CCS	S1	Draney		-999		-999		-999
5	SC	CCS		Nekite		-999		-999		-999
5	SC	CCS		Smith Sound		-999		-999		-999
5	SC	CCS		Smokehouse		-999		-999		-999
1	SC	CCS	S2	Lower Kingcome		-999		-999		-999
1	SC	CCS		Seymour		-999		-999		-999
1	SC	CCS		Upper Kingcome		-999		-999		-999
1	SC	CCS		Wakeman		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Floodpl_ord3_toon	# Obser.	Floodpl_toon_ord3_buf	# Obser.	Floodpl_toon_ord4
1	SC	CCS	S3	Franklin		-999		-999		-999
1	SC	CCS		Klinkaklini Glacier		-999		-999		-999
1	SC	CCS		Lower Klinaklini		-999		-999		-999
1	SC	CCS		Sim		-999		-999		-999
5	SC	CCS	S4	Middle Klinaklini		-999		-999		-999
5	SC	CCS		Upper Klinaklini		-999		-999		-999
1	SC	CCS	S5	Allison		-999		-999		-999
1	SC	CCS		Belize		-999		-999		-999
1	SC	CCS		Huaskin		-999		-999		-999
1	SC	CCS		Walker		-999		-999		-999
1	SC	CCS	S6	Charles		-999		-999		-999
1	SC	CCS		Miriam		-999		-999		-999
1	SC	CCS		Snowdrift		-999		-999		-999
1	SC	CCS	S7	Broughton		-999		-999		-999
1	SC	CCS		Gilford		-999		-999		-999
1	SC	CCS	S8	Ahnuhati-Kwalate		-999		-999		-999
1	SC	CCS		Ahta		-999		-999		-999
1	SC	CCS		Kakweiken		-999		-999		-999
1	SC	CCS	S9	Knight East		-999		-999		-999
1	SC	CCS		Lull-Sallie		-999		-999		-999
2	SC	CCS	S10	Estero		-999		-999		-999
1	SC	CCS		Fulmore		-999		-999		-999
1	SC	CCS		Gray		-999		-999		-999
1	SC	CCS		Thurlow		-999		-999		-999
1	SC	CCS	S11	Phillips		-999		-999		-999
2	SC	CCS		Stafford		-999		-999		-999

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Floodpl_toon_ord4_buf	# Obser.	Lwslbcgz_clip_toon_wtshd	# Obser.	Lwslbcgz_lk_buf_order2_3
6	NC	NC	1	Anyox		-999		-999		-999
6	NC	NC	2	Aristazabal		-999		-999		-999
6	NC	NC	3	Banks		-999		-999		-999
6	NC	NC	4	Belle Bay		-999		-999		-999
6	NC	NC	5	Big Falls		-999		-999		-999
6	NC	NC	6	Bishop (DNC)		-999		-999		-999
6	NC	NC	7	Brown		-999		-999		-999
6	NC	NC	8	Campania		-999		-999		-999
6	NC	NC	9	Captain		-999		-999		-999
6	NC	NC	10	Chambers		-999		-999		-999
6	NC	NC	11	Crab		-999		-999		-999
6	NC	NC	12	Dundas		-999		-999		-999
6	NC	NC	13	Gil		-999		-999		-999
6	NC	NC	14	Gribbell		-999		-999		-999
6	NC	NC	15	Hartley		-999		-999		-999
6	NC	NC	16	Hawkes South		-999		-999		-999
6	NC	NC	17	Hevenor		-999		-999		-999
6	NC	NC	18	Johnston (DNC)		-999		-999		-999
6	NC	NC	19	Kainen		-999		-999		-999
6	NC	NC	20	Khtada		-999		-999		-999
6	NC	NC	21	Khutzeymateen		-999		-999		-999
6	NC	NC	22	Khyex		-999		-999		-999
6	NC	NC	23	Kiltuish		-999		-999		-999
6	NC	NC	24	Kitkiata		-999		-999		-999
6	NC	NC	25	Kitsault		-999		-999		-999
6	NC	NC	26	Kshwan		-999		-999		-999
6	NC	NC	27	Kumealon		-999		-999		-999
6	NC	NC	28	Kwinamass		-999		-999		-999
6	NC	NC	29	Kwinamuck		-999		-999		-999
6	NC	NC	30	Marmot (DNC)		-999		-999		-999
6	NC	NC	31	McCauley		-999		-999		-999
6	NC	NC	32	Monckton		-999		-999		-999
6	NC	NC	33	Observatory East		-999		-999		-999
6	NC	NC	34	Observatory West		-999		-999		-999
6	NC	NC	35	Olh		-999		-999		-999
6	NC	NC	36	Pa'aat		-999		-999		-999
6	NC	NC	37	Pearse		-999		-999		-999
6	NC	NC	38	Porcher		-999		-999		-999
6	NC	NC	39	Quottoon	4	1	4	1	1	1
6	NC	NC	40	Red Bluff		-999		-999		-999
6	NC	NC	41	Scotia		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Floodpl_toon_ord4_buf	# Obser.	Lwslbcgz_clip_toon_wtshd	# Obser.	Lwslbcgz_lk_buf_order2_3
6	NC	NC	42	Skeena Islands		-999		-999		-999
6	NC	NC	43	Somerville		-999		-999		-999
6	NC	NC	44	Sparkling		-999		-999		-999
6	NC	NC	45	Stagoo		-999		-999		-999
6	NC	NC	46	Stephens		-999		-999		-999
6	NC	NC	47	Triumph		-999		-999		-999
6	NC	NC	48	Trutch		-999		-999		-999
6	NC	NC	49	Tuck		-999		-999		-999
6	NC	NC	50	Union		-999		-999		-999
5	NC	CCN	N1	Chapple		-999		-999		-999
5	NC	CCN		Helmcken		-999		-999		-999
5	NC	CCN		Laredo		-999		-999		-999
5	NC	CCN		Surf		-999		-999		-999
5	NC	CCN	N2	Aaltanhash		-999		-999		-999
5	NC	CCN		Butedale		-999		-999		-999
5	NC	CCN		Green		-999		-999		-999
5	NC	CCN		Khutze		-999		-999		-999
5	NC	CCN		Klekane		-999		-999		-999
5	NC	CCN		Kynoch		-999		-999		-999
5	NC	CCN		Sheep Passage		-999		-999		-999
5	NC	CCN		Tolmie		-999		-999		-999
5	NC	CCN		Whalen		-999		-999		-999
5	NC	CCN	N3	Price		-999		-999		-999
5	NC	CCN		Roderick		-999		-999		-999
5	NC	CCN		Swindle		-999		-999		-999
5	NC	CCN	N4	Don Peninsula		-999		-999		-999
5	NC	CCN		Ellerslie		-999		-999		-999
5	NC	CCN		Roscoe		-999		-999		-999
5	NC	CCN		Yeo		-999		-999		-999
5	NC	CCN	N5	Braden		-999		-999		-999
5	NC	CCN		King Island		-999		-999		-999
5	NC	CCS		Labouchere		-999		-999		-999
5	NC	CCN		Nascall		-999		-999		-999
5	NC	CCS	N6	Dean		-999		-999		-999
5	NC	CCS		Jump Acrross		-999		-999		-999
5	NC	CCN		Lower Kimsquit		-999		-999		-999
5	NC	CCN		Sutslem/Skowquiltz		-999		-999		-999
5	NC	CCN		Upper Kimsquit		-999		-999		-999
5	NC	CCS	N7	Atnarko		-999		-999		-999
5	NC	CCS		Crag		-999		-999		-999
5	NC	CCS		Nechako		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Floodpl_toon_ord4_buf	# Obser.	Lwslbcgz_clip_toon_wtshd	# Obser.	Lwslbcgz_lk_buf_order2_3
5	NC	CCS		Sigulat		-999		-999		-999
5	NC	CCS		Young		-999		-999		-999
5	NC	CCN	N8	Outer Coast Islands		-999		-999		-999
5	NC	CCN	N9	Denny		-999		-999		-999
5	NC	CCN		Evans		-999		-999		-999
5	NC	CCN		Hunter		-999		-999		-999
5	NC	CCN	N10	Clyak		-999		-999		-999
5	NC	CCN		Kwatna/Quatlena		-999		-999		-999
5	NC	CCN		Nootum/Koeye		-999		-999		-999
5	NC	CCS		Twin		-999		-999		-999
5	NC	CCS	N11	Clayton		-999		-999		-999
5	NC	CCS		Smitley/Noeick		-999		-999		-999
5	NC	CCS		South Bentinck		-999		-999		-999
5	NC	CCS		Taleomey/Asseek		-999		-999		-999
5	NC	CCS	N12	Ape		-999		-999		-999
5	NC	CCS		Bella Coola		-999		-999		-999
5	NC	CCS		Nusatsum		-999		-999		-999
5	NC	CCS		Saloompt		-999		-999		-999
5	NC	CCS		Talchako/Gyllenspetz		-999		-999		-999
5	NC	CCN	N13	Calvert		-999		-999		-999
5	NC	CCS	N14	Chukwalla/Kibella		-999		-999		-999
5	NC	CCS		Doos/Dallery		-999		-999		-999
5	NC	CCS		Kilippi		-999		-999		-999
1	NC	CCS		Machmell		-999		-999		-999
1	NC	CCS		Neechanz		-999		-999		-999
5	NC	CCN		Owikeno		-999		-999		-999
5	NC	CCN	N15	Sheemahant		-999		-999		-999
5	NC	CCS		Sumquolt		-999		-999		-999
5	NC	CCS		Washwash		-999		-999		-999
5	NC	CCN	N16	Draney		-999		-999		-999
5	NC	CCN		Fish Egg		-999		-999		-999
5	NC	CCN		Johnston (DMC)		-999		-999		-999
5	NC	CCN		Nekite		-999		-999		-999
5	SC	CCS	S1	Draney		-999		-999		-999
5	SC	CCS		Nekite		-999		-999		-999
5	SC	CCS		Smith Sound		-999		-999		-999
5	SC	CCS		Smokehouse		-999		-999		-999
1	SC	CCS	S2	Lower Kingcome		-999		-999		-999
1	SC	CCS		Seymour		-999		-999		-999
1	SC	CCS		Upper Kingcome		-999		-999		-999
1	SC	CCS		Wakeman		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Floodpl_toon_ord4_buf	# Obser.	Lwslbcgz_clip_toon_wtshd	# Obser.	Lwslbcgz_lk_buf_order2_3
1	SC	CCS	S3	Franklin		-999		-999		-999
1	SC	CCS		Klinkaklini Glacier		-999		-999		-999
1	SC	CCS		Lower Klinaklini		-999		-999		-999
1	SC	CCS		Sim		-999		-999		-999
5	SC	CCS	S4	Middle Klinaklini		-999		-999		-999
5	SC	CCS		Upper Klinaklini		-999		-999		-999
1	SC	CCS	S5	Allison		-999		-999		-999
1	SC	CCS		Belize		-999		-999		-999
1	SC	CCS		Huaskin		-999		-999		-999
1	SC	CCS		Walker		-999		-999		-999
1	SC	CCS	S6	Charles		-999		-999		-999
1	SC	CCS		Miriam		-999		-999		-999
1	SC	CCS		Snowdrift		-999		-999		-999
1	SC	CCS	S7	Broughton		-999		-999		-999
1	SC	CCS		Gilford		-999		-999		-999
1	SC	CCS	S8	Ahnuhati-Kwalate		-999		-999		-999
1	SC	CCS		Ahta		-999		-999		-999
1	SC	CCS		Kakweiken		-999		-999		-999
1	SC	CCS	S9	Knight East		-999		-999		-999
1	SC	CCS		Lull-Sallie		-999		-999		-999
2	SC	CCS	S10	Estero		-999		-999		-999
1	SC	CCS		Fulmore		-999		-999		-999
1	SC	CCS		Gray		-999		-999		-999
1	SC	CCS		Thurlow		-999		-999		-999
1	SC	CCS	S11	Phillips		-999		-999		-999
2	SC	CCS		Stafford		-999		-999		-999

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Subtn_mrg_dis	# Obser.	Toon_kinco_wtrsd	# Obser.	Toon_stream_order1
6	NC	NC	1	Anyox		-999		-999		-999
6	NC	NC	2	Aristazabal		-999		-999		-999
6	NC	NC	3	Banks		-999		-999		-999
6	NC	NC	4	Belle Bay		-999		-999		-999
6	NC	NC	5	Big Falls		-999		-999		-999
6	NC	NC	6	Bishop (DNC)		-999		-999		-999
6	NC	NC	7	Brown		-999		-999		-999
6	NC	NC	8	Campania		-999		-999		-999
6	NC	NC	9	Captain		-999		-999		-999
6	NC	NC	10	Chambers		-999		-999		-999
6	NC	NC	11	Crab		-999		-999		-999
6	NC	NC	12	Dundas		-999		-999		-999
6	NC	NC	13	Gil		-999		-999		-999
6	NC	NC	14	Gribbell		-999		-999		-999
6	NC	NC	15	Hartley		-999		-999		-999
6	NC	NC	16	Hawkes South		-999		-999		-999
6	NC	NC	17	Hevenor		-999		-999		-999
6	NC	NC	18	Johnston (DNC)		-999		-999		-999
6	NC	NC	19	Kainen		-999		-999		-999
6	NC	NC	20	Khtada		-999		-999		-999
6	NC	NC	21	Khutzeymateen		-999		-999		-999
6	NC	NC	22	Khyex		-999		-999		-999
6	NC	NC	23	Kiltuish		-999		-999		-999
6	NC	NC	24	Kitkiata		-999		-999		-999
6	NC	NC	25	Kitsault		-999		-999		-999
6	NC	NC	26	Kshwan		-999		-999		-999
6	NC	NC	27	Kumealon		-999		-999		-999
6	NC	NC	28	Kwinamass		-999		-999		-999
6	NC	NC	29	Kwinamuck		-999		-999		-999
6	NC	NC	30	Marmot (DNC)		-999		-999		-999
6	NC	NC	31	McCauley		-999		-999		-999
6	NC	NC	32	Monckton		-999		-999		-999
6	NC	NC	33	Observatory East		-999		-999		-999
6	NC	NC	34	Observatory West		-999		-999		-999
6	NC	NC	35	Olh		-999		-999		-999
6	NC	NC	36	Pa'aat		-999		-999		-999
6	NC	NC	37	Pearse		-999		-999		-999
6	NC	NC	38	Porcher		-999		-999		-999
6	NC	NC	39	Quottoon	1	1	1	1	3	1
6	NC	NC	40	Red Bluff		-999		-999		-999
6	NC	NC	41	Scotia		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Subtn_mrg_dis	# Obser.	Toon_kinco_wtrsd	# Obser.	Toon_stream_order1
6	NC	NC	42	Skeena Islands		-999		-999		-999
6	NC	NC	43	Somerville		-999		-999		-999
6	NC	NC	44	Sparkling		-999		-999		-999
6	NC	NC	45	Stagoo		-999		-999		-999
6	NC	NC	46	Stephens		-999		-999		-999
6	NC	NC	47	Triumph		-999		-999		-999
6	NC	NC	48	Trutch		-999		-999		-999
6	NC	NC	49	Tuck		-999		-999		-999
6	NC	NC	50	Union		-999		-999		-999
5	NC	CCN	N1	Chapple		-999		-999		-999
5	NC	CCN		Helmcken		-999		-999		-999
5	NC	CCN		Laredo		-999		-999		-999
5	NC	CCN		Surf		-999		-999		-999
5	NC	CCN	N2	Aaltanhash		-999		-999		-999
5	NC	CCN		Butedale		-999		-999		-999
5	NC	CCN		Green		-999		-999		-999
5	NC	CCN		Khutze		-999		-999		-999
5	NC	CCN		Klekane		-999		-999		-999
5	NC	CCN		Kynoch		-999		-999		-999
5	NC	CCN		Sheep Passage		-999		-999		-999
5	NC	CCN		Tolmie		-999		-999		-999
5	NC	CCN		Whalen		-999		-999		-999
5	NC	CCN	N3	Price		-999		-999		-999
5	NC	CCN		Roderick		-999		-999		-999
5	NC	CCN		Swindle		-999		-999		-999
5	NC	CCN	N4	Don Peninsula		-999		-999		-999
5	NC	CCN		Ellerslie		-999		-999		-999
5	NC	CCN		Roscoe		-999		-999		-999
5	NC	CCN		Yeo		-999		-999		-999
5	NC	CCN	N5	Braden		-999		-999		-999
5	NC	CCN		King Island		-999		-999		-999
5	NC	CCS		Labouchere		-999		-999		-999
5	NC	CCN		Nascall		-999		-999		-999
5	NC	CCS	N6	Dean		-999		-999		-999
5	NC	CCS		Jump Acrross		-999		-999		-999
5	NC	CCN		Lower Kimsquit		-999		-999		-999
5	NC	CCN		Sutslem/Skowquiltz		-999		-999		-999
5	NC	CCN		Upper Kimsquit		-999		-999		-999
5	NC	CCS	N7	Atnarko		-999		-999		-999
5	NC	CCS		Crag		-999		-999		-999
5	NC	CCS		Nechako		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Subtn_mrg_dis	# Obser.	Toon_kinco_wtrsd	# Obser.	Toon_stream_order1
5	NC	CCS		Sigulat		-999		-999		-999
5	NC	CCS		Young		-999		-999		-999
5	NC	CCN	N8	Outer Coast Islands		-999		-999		-999
5	NC	CCN	N9	Denny		-999		-999		-999
5	NC	CCN		Evans		-999		-999		-999
5	NC	CCN		Hunter		-999		-999		-999
5	NC	CCN	N10	Clyak		-999		-999		-999
5	NC	CCN		Kwatna/Quatlena		-999		-999		-999
5	NC	CCN		Nootum/Koeye		-999		-999		-999
5	NC	CCS		Twin		-999		-999		-999
5	NC	CCS	N11	Clayton		-999		-999		-999
5	NC	CCS		Smitley/Noeick		-999		-999		-999
5	NC	CCS		South Bentinck		-999		-999		-999
5	NC	CCS		Taleomey/Asseek		-999		-999		-999
5	NC	CCS	N12	Ape		-999		-999		-999
5	NC	CCS		Bella Coola		-999		-999		-999
5	NC	CCS		Nusatsum		-999		-999		-999
5	NC	CCS		Saloompt		-999		-999		-999
5	NC	CCS		Talchako/Gyllenspetz		-999		-999		-999
5	NC	CCN	N13	Calvert		-999		-999		-999
5	NC	CCS	N14	Chukwalla/Kibella		-999		-999		-999
5	NC	CCS		Doos/Dallery		-999		-999		-999
5	NC	CCS		Kilippi		-999		-999		-999
1	NC	CCS		Machmell		-999		-999		-999
1	NC	CCS		Neechanz		-999		-999		-999
5	NC	CCN		Owikeno		-999		-999		-999
5	NC	CCN	N15	Sheemahant		-999		-999		-999
5	NC	CCS		Sumquolt		-999		-999		-999
5	NC	CCS		Washwash		-999		-999		-999
5	NC	CCN	N16	Draney		-999		-999		-999
5	NC	CCN		Fish Egg		-999		-999		-999
5	NC	CCN		Johnston (DMC)		-999		-999		-999
5	NC	CCN		Nekite		-999		-999		-999
5	SC	CCS	S1	Draney		-999		-999		-999
5	SC	CCS		Nekite		-999		-999		-999
5	SC	CCS		Smith Sound		-999		-999		-999
5	SC	CCS		Smokehouse		-999		-999		-999
1	SC	CCS	S2	Lower Kingcome		-999		-999		-999
1	SC	CCS		Seymour		-999		-999		-999
1	SC	CCS		Upper Kingcome		-999		-999		-999
1	SC	CCS		Wakeman		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
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1	SC	CCS	S3	Franklin		-999		-999		-999
1	SC	CCS		Klinkaklini Glacier		-999		-999		-999
1	SC	CCS		Lower Klinaklini		-999		-999		-999
1	SC	CCS		Sim		-999		-999		-999
5	SC	CCS	S4	Middle Klinaklini		-999		-999		-999
5	SC	CCS		Upper Klinaklini		-999		-999		-999
1	SC	CCS	S5	Allison		-999		-999		-999
1	SC	CCS		Belize		-999		-999		-999
1	SC	CCS		Huaskin		-999		-999		-999
1	SC	CCS		Walker		-999		-999		-999
1	SC	CCS	S6	Charles		-999		-999		-999
1	SC	CCS		Miriam		-999		-999		-999
1	SC	CCS		Snowdrift		-999		-999		-999
1	SC	CCS	S7	Broughton		-999		-999		-999
1	SC	CCS		Gilford		-999		-999		-999
1	SC	CCS	S8	Ahnuhati-Kwalate		-999		-999		-999
1	SC	CCS		Ahta		-999		-999		-999
1	SC	CCS		Kakweiken		-999		-999		-999
1	SC	CCS	S9	Knight East		-999		-999		-999
1	SC	CCS		Lull-Sallie		-999		-999		-999
2	SC	CCS	S10	Estero		-999		-999		-999
1	SC	CCS		Fulmore		-999		-999		-999
1	SC	CCS		Gray		-999		-999		-999
1	SC	CCS		Thurlow		-999		-999		-999
1	SC	CCS	S11	Phillips		-999		-999		-999
2	SC	CCS		Stafford		-999		-999		-999

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Toon_stream_order1_buf	# Obser.	Toon_stream_order2	# Obser.	Toon_stream_order2_buf
6	NC	NC	1	Anyox		-999		-999		-999
6	NC	NC	2	Aristazabal		-999		-999		-999
6	NC	NC	3	Banks		-999		-999		-999
6	NC	NC	4	Belle Bay		-999		-999		-999
6	NC	NC	5	Big Falls		-999		-999		-999
6	NC	NC	6	Bishop (DNC)		-999		-999		-999
6	NC	NC	7	Brown		-999		-999		-999
6	NC	NC	8	Campania		-999		-999		-999
6	NC	NC	9	Captain		-999		-999		-999
6	NC	NC	10	Chambers		-999		-999		-999
6	NC	NC	11	Crab		-999		-999		-999
6	NC	NC	12	Dundas		-999		-999		-999
6	NC	NC	13	Gil		-999		-999		-999
6	NC	NC	14	Gribbell		-999		-999		-999
6	NC	NC	15	Hartley		-999		-999		-999
6	NC	NC	16	Hawkes South		-999		-999		-999
6	NC	NC	17	Hevenor		-999		-999		-999
6	NC	NC	18	Johnston (DNC)		-999		-999		-999
6	NC	NC	19	Kainen		-999		-999		-999
6	NC	NC	20	Khtada		-999		-999		-999
6	NC	NC	21	Khutzeymateen		-999		-999		-999
6	NC	NC	22	Khyex		-999		-999		-999
6	NC	NC	23	Kiltuish		-999		-999		-999
6	NC	NC	24	Kitkiata		-999		-999		-999
6	NC	NC	25	Kitsault		-999		-999		-999
6	NC	NC	26	Kshwan		-999		-999		-999
6	NC	NC	27	Kumealon		-999		-999		-999
6	NC	NC	28	Kwinamass		-999		-999		-999
6	NC	NC	29	Kwinamuck		-999		-999		-999
6	NC	NC	30	Marmot (DNC)		-999		-999		-999
6	NC	NC	31	McCauley		-999		-999		-999
6	NC	NC	32	Monckton		-999		-999		-999
6	NC	NC	33	Observatory East		-999		-999		-999
6	NC	NC	34	Observatory West		-999		-999		-999
6	NC	NC	35	Olh		-999		-999		-999
6	NC	NC	36	Pa'aat		-999		-999		-999
6	NC	NC	37	Pearse		-999		-999		-999
6	NC	NC	38	Porcher		-999		-999		-999
6	NC	NC	39	Quottoon	3	1	4	1	4	1
6	NC	NC	40	Red Bluff		-999		-999		-999
6	NC	NC	41	Scotia		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Toon_stream_order1_buf	# Obser.	Toon_stream_order2	# Obser.	Toon_stream_order2_buf
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6	NC	NC	43	Somerville		-999		-999		-999
6	NC	NC	44	Sparkling		-999		-999		-999
6	NC	NC	45	Stagoo		-999		-999		-999
6	NC	NC	46	Stephens		-999		-999		-999
6	NC	NC	47	Triumph		-999		-999		-999
6	NC	NC	48	Trutch		-999		-999		-999
6	NC	NC	49	Tuck		-999		-999		-999
6	NC	NC	50	Union		-999		-999		-999
5	NC	CCN	N1	Chapple		-999		-999		-999
5	NC	CCN		Helmcken		-999		-999		-999
5	NC	CCN		Laredo		-999		-999		-999
5	NC	CCN		Surf		-999		-999		-999
5	NC	CCN	N2	Aaltanhash		-999		-999		-999
5	NC	CCN		Butedale		-999		-999		-999
5	NC	CCN		Green		-999		-999		-999
5	NC	CCN		Khutze		-999		-999		-999
5	NC	CCN		Klekane		-999		-999		-999
5	NC	CCN		Kynoch		-999		-999		-999
5	NC	CCN		Sheep Passage		-999		-999		-999
5	NC	CCN		Tolmie		-999		-999		-999
5	NC	CCN		Whalen		-999		-999		-999
5	NC	CCN	N3	Price		-999		-999		-999
5	NC	CCN		Roderick		-999		-999		-999
5	NC	CCN		Swindle		-999		-999		-999
5	NC	CCN	N4	Don Peninsula		-999		-999		-999
5	NC	CCN		Ellerslie		-999		-999		-999
5	NC	CCN		Roscoe		-999		-999		-999
5	NC	CCN		Yeo		-999		-999		-999
5	NC	CCN	N5	Braden		-999		-999		-999
5	NC	CCN		King Island		-999		-999		-999
5	NC	CCS		Labouchere		-999		-999		-999
5	NC	CCN		Nascall		-999		-999		-999
5	NC	CCS	N6	Dean		-999		-999		-999
5	NC	CCS		Jump Acrross		-999		-999		-999
5	NC	CCN		Lower Kimsquit		-999		-999		-999
5	NC	CCN		Sutslem/Skowquiltz		-999		-999		-999
5	NC	CCN		Upper Kimsquit		-999		-999		-999
5	NC	CCS	N7	Atnarko		-999		-999		-999
5	NC	CCS		Crag		-999		-999		-999
5	NC	CCS		Nechako		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Toon_stream_order1_buf	# Obser.	Toon_stream_order2	# Obser.	Toon_stream_order2_buf
5	NC	CCS		Sigulat		-999		-999		-999
5	NC	CCS		Young		-999		-999		-999
5	NC	CCN	N8	Outer Coast Islands		-999		-999		-999
5	NC	CCN	N9	Denny		-999		-999		-999
5	NC	CCN		Evans		-999		-999		-999
5	NC	CCN		Hunter		-999		-999		-999
5	NC	CCN	N10	Clyak		-999		-999		-999
5	NC	CCN		Kwatna/Quatlena		-999		-999		-999
5	NC	CCN		Nootum/Koeye		-999		-999		-999
5	NC	CCS		Twin		-999		-999		-999
5	NC	CCS	N11	Clayton		-999		-999		-999
5	NC	CCS		Smitley/Noeick		-999		-999		-999
5	NC	CCS		South Bentinck		-999		-999		-999
5	NC	CCS		Taleomey/Asseek		-999		-999		-999
5	NC	CCS	N12	Ape		-999		-999		-999
5	NC	CCS		Bella Coola		-999		-999		-999
5	NC	CCS		Nusatsum		-999		-999		-999
5	NC	CCS		Saloompt		-999		-999		-999
5	NC	CCS		Talchako/Gyllenspetz		-999		-999		-999
5	NC	CCN	N13	Calvert		-999		-999		-999
5	NC	CCS	N14	Chukwalla/Kibella		-999		-999		-999
5	NC	CCS		Doos/Dallery		-999		-999		-999
5	NC	CCS		Kilippi		-999		-999		-999
1	NC	CCS		Machmell		-999		-999		-999
1	NC	CCS		Neechanz		-999		-999		-999
5	NC	CCN		Owikeno		-999		-999		-999
5	NC	CCN	N15	Sheemahant		-999		-999		-999
5	NC	CCS		Sumquolt		-999		-999		-999
5	NC	CCS		Washwash		-999		-999		-999
5	NC	CCN	N16	Draney		-999		-999		-999
5	NC	CCN		Fish Egg		-999		-999		-999
5	NC	CCN		Johnston (DMC)		-999		-999		-999
5	NC	CCN		Nekite		-999		-999		-999
5	SC	CCS	S1	Draney		-999		-999		-999
5	SC	CCS		Nekite		-999		-999		-999
5	SC	CCS		Smith Sound		-999		-999		-999
5	SC	CCS		Smokehouse		-999		-999		-999
1	SC	CCS	S2	Lower Kingcome		-999		-999		-999
1	SC	CCS		Seymour		-999		-999		-999
1	SC	CCS		Upper Kingcome		-999		-999		-999
1	SC	CCS		Wakeman		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Toon_stream_order1_buf	# Obser.	Toon_stream_order2	# Obser.	Toon_stream_order2_buf
1	SC	CCS	S3	Franklin		-999		-999		-999
1	SC	CCS		Klinkaklini Glacier		-999		-999		-999
1	SC	CCS		Lower Klinaklini		-999		-999		-999
1	SC	CCS		Sim		-999		-999		-999
5	SC	CCS	S4	Middle Klinaklini		-999		-999		-999
5	SC	CCS		Upper Klinaklini		-999		-999		-999
1	SC	CCS	S5	Allison		-999		-999		-999
1	SC	CCS		Belize		-999		-999		-999
1	SC	CCS		Huaskin		-999		-999		-999
1	SC	CCS		Walker		-999		-999		-999
1	SC	CCS	S6	Charles		-999		-999		-999
1	SC	CCS		Miriam		-999		-999		-999
1	SC	CCS		Snowdrift		-999		-999		-999
1	SC	CCS	S7	Broughton		-999		-999		-999
1	SC	CCS		Gilford		-999		-999		-999
1	SC	CCS	S8	Ahnuhati-Kwalate		-999		-999		-999
1	SC	CCS		Ahta		-999		-999		-999
1	SC	CCS		Kakweiken		-999		-999		-999
1	SC	CCS	S9	Knight East		-999		-999		-999
1	SC	CCS		Lull-Sallie		-999		-999		-999
2	SC	CCS	S10	Estero		-999		-999		-999
1	SC	CCS		Fulmore		-999		-999		-999
1	SC	CCS		Gray		-999		-999		-999
1	SC	CCS		Thurlow		-999		-999		-999
1	SC	CCS	S11	Phillips		-999		-999		-999
2	SC	CCS		Stafford		-999		-999		-999

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Toon_stream_order3	# Obser.	Toon_stream_order3_buf	# Obser.	Toon_stream_order4
6	NC	NC	1	Anyox		-999		-999		-999
6	NC	NC	2	Aristazabal		-999		-999		-999
6	NC	NC	3	Banks		-999		-999		-999
6	NC	NC	4	Belle Bay		-999		-999		-999
6	NC	NC	5	Big Falls		-999		-999		-999
6	NC	NC	6	Bishop (DNC)		-999		-999		-999
6	NC	NC	7	Brown		-999		-999		-999
6	NC	NC	8	Campania		-999		-999		-999
6	NC	NC	9	Captain		-999		-999		-999
6	NC	NC	10	Chambers		-999		-999		-999
6	NC	NC	11	Crab		-999		-999		-999
6	NC	NC	12	Dundas		-999		-999		-999
6	NC	NC	13	Gil		-999		-999		-999
6	NC	NC	14	Gribbell		-999		-999		-999
6	NC	NC	15	Hartley		-999		-999		-999
6	NC	NC	16	Hawkes South		-999		-999		-999
6	NC	NC	17	Hevenor		-999		-999		-999
6	NC	NC	18	Johnston (DNC)		-999		-999		-999
6	NC	NC	19	Kainen		-999		-999		-999
6	NC	NC	20	Khtada		-999		-999		-999
6	NC	NC	21	Khutzeymateen		-999		-999		-999
6	NC	NC	22	Khyex		-999		-999		-999
6	NC	NC	23	Kiltuish		-999		-999		-999
6	NC	NC	24	Kitkiata		-999		-999		-999
6	NC	NC	25	Kitsault		-999		-999		-999
6	NC	NC	26	Kshwan		-999		-999		-999
6	NC	NC	27	Kumealon		-999		-999		-999
6	NC	NC	28	Kwinamass		-999		-999		-999
6	NC	NC	29	Kwinamuck		-999		-999		-999
6	NC	NC	30	Marmot (DNC)		-999		-999		-999
6	NC	NC	31	McCauley		-999		-999		-999
6	NC	NC	32	Monckton		-999		-999		-999
6	NC	NC	33	Observatory East		-999		-999		-999
6	NC	NC	34	Observatory West		-999		-999		-999
6	NC	NC	35	Olh		-999		-999		-999
6	NC	NC	36	Pa'aat		-999		-999		-999
6	NC	NC	37	Pearse		-999		-999		-999
6	NC	NC	38	Porcher		-999		-999		-999
6	NC	NC	39	Quottoon	1	1	1	1	1	1
6	NC	NC	40	Red Bluff		-999		-999		-999
6	NC	NC	41	Scotia		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Toon_stream_order3	# Obser.	Toon_stream_order3_buf	# Obser.	Toon_stream_order4
6	NC	NC	42	Skeena Islands		-999		-999		-999
6	NC	NC	43	Somerville		-999		-999		-999
6	NC	NC	44	Sparkling		-999		-999		-999
6	NC	NC	45	Stagoo		-999		-999		-999
6	NC	NC	46	Stephens		-999		-999		-999
6	NC	NC	47	Triumph		-999		-999		-999
6	NC	NC	48	Trutch		-999		-999		-999
6	NC	NC	49	Tuck		-999		-999		-999
6	NC	NC	50	Union		-999		-999		-999
5	NC	CCN	N1	Chapple		-999		-999		-999
5	NC	CCN		Helmcken		-999		-999		-999
5	NC	CCN		Laredo		-999		-999		-999
5	NC	CCN		Surf		-999		-999		-999
5	NC	CCN	N2	Aaltanhash		-999		-999		-999
5	NC	CCN		Butedale		-999		-999		-999
5	NC	CCN		Green		-999		-999		-999
5	NC	CCN		Khutze		-999		-999		-999
5	NC	CCN		Klekane		-999		-999		-999
5	NC	CCN		Kynoch		-999		-999		-999
5	NC	CCN		Sheep Passage		-999		-999		-999
5	NC	CCN		Tolmie		-999		-999		-999
5	NC	CCN		Whalen		-999		-999		-999
5	NC	CCN	N3	Price		-999		-999		-999
5	NC	CCN		Roderick		-999		-999		-999
5	NC	CCN		Swindle		-999		-999		-999
5	NC	CCN	N4	Don Peninsula		-999		-999		-999
5	NC	CCN		Ellerslie		-999		-999		-999
5	NC	CCN		Roscoe		-999		-999		-999
5	NC	CCN		Yeo		-999		-999		-999
5	NC	CCN	N5	Braden		-999		-999		-999
5	NC	CCN		King Island		-999		-999		-999
5	NC	CCS		Labouchere		-999		-999		-999
5	NC	CCN		Nascall		-999		-999		-999
5	NC	CCS	N6	Dean		-999		-999		-999
5	NC	CCS		Jump Acrross		-999		-999		-999
5	NC	CCN		Lower Kimsquit		-999		-999		-999
5	NC	CCN		Sutslem/Skowquiltz		-999		-999		-999
5	NC	CCN		Upper Kimsquit		-999		-999		-999
5	NC	CCS	N7	Atnarko		-999		-999		-999
5	NC	CCS		Crag		-999		-999		-999
5	NC	CCS		Nechako		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Toon_stream_order3	# Obser.	Toon_stream_order3_buf	# Obser.	Toon_stream_order4
5	NC	CCS		Sigulat		-999		-999		-999
5	NC	CCS		Young		-999		-999		-999
5	NC	CCN	N8	Outer Coast Islands		-999		-999		-999
5	NC	CCN	N9	Denny		-999		-999		-999
5	NC	CCN		Evans		-999		-999		-999
5	NC	CCN		Hunter		-999		-999		-999
5	NC	CCN	N10	Clyak		-999		-999		-999
5	NC	CCN		Kwatna/Quatlena		-999		-999		-999
5	NC	CCN		Nootum/Koeye		-999		-999		-999
5	NC	CCS		Twin		-999		-999		-999
5	NC	CCS	N11	Clayton		-999		-999		-999
5	NC	CCS		Smitley/Noeick		-999		-999		-999
5	NC	CCS		South Bentinck		-999		-999		-999
5	NC	CCS		Taleomey/Asseek		-999		-999		-999
5	NC	CCS	N12	Ape		-999		-999		-999
5	NC	CCS		Bella Coola		-999		-999		-999
5	NC	CCS		Nusatsum		-999		-999		-999
5	NC	CCS		Saloompt		-999		-999		-999
5	NC	CCS		Talchako/Gyllenspetz		-999		-999		-999
5	NC	CCN	N13	Calvert		-999		-999		-999
5	NC	CCS	N14	Chukwalla/Kibella		-999		-999		-999
5	NC	CCS		Doos/Dallery		-999		-999		-999
5	NC	CCS		Kilippi		-999		-999		-999
1	NC	CCS		Machmell		-999		-999		-999
1	NC	CCS		Neechanz		-999		-999		-999
5	NC	CCN		Owikeno		-999		-999		-999
5	NC	CCN	N15	Sheemahant		-999		-999		-999
5	NC	CCS		Sumquolt		-999		-999		-999
5	NC	CCS		Washwash		-999		-999		-999
5	NC	CCN	N16	Draney		-999		-999		-999
5	NC	CCN		Fish Egg		-999		-999		-999
5	NC	CCN		Johnston (DMC)		-999		-999		-999
5	NC	CCN		Nekite		-999		-999		-999
5	SC	CCS	S1	Draney		-999		-999		-999
5	SC	CCS		Nekite		-999		-999		-999
5	SC	CCS		Smith Sound		-999		-999		-999
5	SC	CCS		Smokehouse		-999		-999		-999
1	SC	CCS	S2	Lower Kingcome		-999		-999		-999
1	SC	CCS		Seymour		-999		-999		-999
1	SC	CCS		Upper Kingcome		-999		-999		-999
1	SC	CCS		Wakeman		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH					
				Zipefile name:	HVFH_Toon					
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Toon_stream_order3	# Obser.	Toon_stream_order3_buf	# Obser.	Toon_stream_order4
1	SC	CCS	S3	Franklin		-999		-999		-999
1	SC	CCS		Klinkaklini Glacier		-999		-999		-999
1	SC	CCS		Lower Klinaklini		-999		-999		-999
1	SC	CCS		Sim		-999		-999		-999
5	SC	CCS	S4	Middle Klinaklini		-999		-999		-999
5	SC	CCS		Upper Klinaklini		-999		-999		-999
1	SC	CCS	S5	Allison		-999		-999		-999
1	SC	CCS		Belize		-999		-999		-999
1	SC	CCS		Huaskin		-999		-999		-999
1	SC	CCS		Walker		-999		-999		-999
1	SC	CCS	S6	Charles		-999		-999		-999
1	SC	CCS		Miriam		-999		-999		-999
1	SC	CCS		Snowdrift		-999		-999		-999
1	SC	CCS	S7	Broughton		-999		-999		-999
1	SC	CCS		Gilford		-999		-999		-999
1	SC	CCS	S8	Ahnuhati-Kwalate		-999		-999		-999
1	SC	CCS		Ahta		-999		-999		-999
1	SC	CCS		Kakweiken		-999		-999		-999
1	SC	CCS	S9	Knight East		-999		-999		-999
1	SC	CCS		Lull-Sallie		-999		-999		-999
2	SC	CCS	S10	Estero		-999		-999		-999
1	SC	CCS		Fulmore		-999		-999		-999
1	SC	CCS		Gray		-999		-999		-999
1	SC	CCS		Thurlow		-999		-999		-999
1	SC	CCS	S11	Phillips		-999		-999		-999
2	SC	CCS		Stafford		-999		-999		-999

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH			
				Zipefile name:	HVFH_Toon			
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Toon_stream_order4_buf	# Obser.	Wetl_toon
6	NC	NC	1	Anyox		-999		-999
6	NC	NC	2	Aristazabal		-999		-999
6	NC	NC	3	Banks		-999		-999
6	NC	NC	4	Belle Bay		-999		-999
6	NC	NC	5	Big Falls		-999		-999
6	NC	NC	6	Bishop (DNC)		-999		-999
6	NC	NC	7	Brown		-999		-999
6	NC	NC	8	Campania		-999		-999
6	NC	NC	9	Captain		-999		-999
6	NC	NC	10	Chambers		-999		-999
6	NC	NC	11	Crab		-999		-999
6	NC	NC	12	Dundas		-999		-999
6	NC	NC	13	Gil		-999		-999
6	NC	NC	14	Gribbell		-999		-999
6	NC	NC	15	Hartley		-999		-999
6	NC	NC	16	Hawkes South		-999		-999
6	NC	NC	17	Hevenor		-999		-999
6	NC	NC	18	Johnston (DNC)		-999		-999
6	NC	NC	19	Kainen		-999		-999
6	NC	NC	20	Khtada		-999		-999
6	NC	NC	21	Khutzeymateen		-999		-999
6	NC	NC	22	Khyex		-999		-999
6	NC	NC	23	Kiltuish		-999		-999
6	NC	NC	24	Kitkiata		-999		-999
6	NC	NC	25	Kitsault		-999		-999
6	NC	NC	26	Kshwan		-999		-999
6	NC	NC	27	Kumealon		-999		-999
6	NC	NC	28	Kwinamass		-999		-999
6	NC	NC	29	Kwinamuck		-999		-999
6	NC	NC	30	Marmot (DNC)		-999		-999
6	NC	NC	31	McCauley		-999		-999
6	NC	NC	32	Monckton		-999		-999
6	NC	NC	33	Observatory East		-999		-999
6	NC	NC	34	Observatory West		-999		-999
6	NC	NC	35	Olh		-999		-999
6	NC	NC	36	Pa'aat		-999		-999
6	NC	NC	37	Pearse		-999		-999
6	NC	NC	38	Porcher		-999		-999
6	NC	NC	39	Quottoon	1	1	1	1
6	NC	NC	40	Red Bluff		-999		-999
6	NC	NC	41	Scotia		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH			
				Zipefile name:	HVFH_Toon			
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Toon_stream_order4_buf	# Obser.	Wetl_toon
6	NC	NC	42	Skeena Islands		-999		-999
6	NC	NC	43	Somerville		-999		-999
6	NC	NC	44	Sparkling		-999		-999
6	NC	NC	45	Stagoo		-999		-999
6	NC	NC	46	Stephens		-999		-999
6	NC	NC	47	Triumph		-999		-999
6	NC	NC	48	Trutch		-999		-999
6	NC	NC	49	Tuck		-999		-999
6	NC	NC	50	Union		-999		-999
5	NC	CCN	N1	Chapple		-999		-999
5	NC	CCN		Helmcken		-999		-999
5	NC	CCN		Laredo		-999		-999
5	NC	CCN		Surf		-999		-999
5	NC	CCN	N2	Aaltanhash		-999		-999
5	NC	CCN		Butedale		-999		-999
5	NC	CCN		Green		-999		-999
5	NC	CCN		Khutze		-999		-999
5	NC	CCN		Klekane		-999		-999
5	NC	CCN		Kynoch		-999		-999
5	NC	CCN		Sheep Passage		-999		-999
5	NC	CCN		Tolmie		-999		-999
5	NC	CCN		Whalen		-999		-999
5	NC	CCN	N3	Price		-999		-999
5	NC	CCN		Roderick		-999		-999
5	NC	CCN		Swindle		-999		-999
5	NC	CCN	N4	Don Peninsula		-999		-999
5	NC	CCN		Ellerslie		-999		-999
5	NC	CCN		Roscoe		-999		-999
5	NC	CCN		Yeo		-999		-999
5	NC	CCN	N5	Braden		-999		-999
5	NC	CCN		King Island		-999		-999
5	NC	CCS		Labouchere		-999		-999
5	NC	CCN		Nascall		-999		-999
5	NC	CCS	N6	Dean		-999		-999
5	NC	CCS		Jump Acrross		-999		-999
5	NC	CCN		Lower Kimsquit		-999		-999
5	NC	CCN		Sutslem/Skowquiltz		-999		-999
5	NC	CCN		Upper Kimsquit		-999		-999
5	NC	CCS	N7	Atnarko		-999		-999
5	NC	CCS		Crag		-999		-999
5	NC	CCS		Nechako		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH			
				Zipefile name:	HVFH_Toon			
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Toon_stream_order4_buf	# Obser.	Wetl_toon
5	NC	CCS		Sigulat		-999		-999
5	NC	CCS		Young		-999		-999
5	NC	CCN	N8	Outer Coast Islands		-999		-999
5	NC	CCN	N9	Denny		-999		-999
5	NC	CCN		Evans		-999		-999
5	NC	CCN		Hunter		-999		-999
5	NC	CCN	N10	Clyak		-999		-999
5	NC	CCN		Kwatna/Quatlena		-999		-999
5	NC	CCN		Nootum/Koeye		-999		-999
5	NC	CCS		Twin		-999		-999
5	NC	CCS	N11	Clayton		-999		-999
5	NC	CCS		Smitley/Noeick		-999		-999
5	NC	CCS		South Bentinck		-999		-999
5	NC	CCS		Taleomey/Asseek		-999		-999
5	NC	CCS	N12	Ape		-999		-999
5	NC	CCS		Bella Coola		-999		-999
5	NC	CCS		Nusatsum		-999		-999
5	NC	CCS		Saloompt		-999		-999
5	NC	CCS		Talchako/Gyllenspetz		-999		-999
5	NC	CCN	N13	Calvert		-999		-999
5	NC	CCS	N14	Chukwalla/Kibella		-999		-999
5	NC	CCS		Doos/Dallery		-999		-999
5	NC	CCS		Kilippi		-999		-999
1	NC	CCS		Machmell		-999		-999
1	NC	CCS		Neechanz		-999		-999
5	NC	CCN		Owikeno		-999		-999
5	NC	CCN	N15	Sheemahant		-999		-999
5	NC	CCS		Sumquolt		-999		-999
5	NC	CCS		Washwash		-999		-999
5	NC	CCN	N16	Draney		-999		-999
5	NC	CCN		Fish Egg		-999		-999
5	NC	CCN		Johnston (DMC)		-999		-999
5	NC	CCN		Nekite		-999		-999
5	SC	CCS	S1	Draney		-999		-999
5	SC	CCS		Nekite		-999		-999
5	SC	CCS		Smith Sound		-999		-999
5	SC	CCS		Smokehouse		-999		-999
1	SC	CCS	S2	Lower Kingcome		-999		-999
1	SC	CCS		Seymour		-999		-999
1	SC	CCS		Upper Kingcome		-999		-999
1	SC	CCS		Wakeman		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	FISH			
				Zipefile name:	HVFH_Toon			
1=YES;	-999=NO DATA			Shapefile name:	# Obser.	Toon_stream_order4_buf	# Obser.	Wetl_toon
1	SC	CCS	S3	Franklin		-999		-999
1	SC	CCS		Klinkaklini Glacier		-999		-999
1	SC	CCS		Lower Klinaklini		-999		-999
1	SC	CCS		Sim		-999		-999
5	SC	CCS	S4	Middle Klinaklini		-999		-999
5	SC	CCS		Upper Klinaklini		-999		-999
1	SC	CCS	S5	Allison		-999		-999
1	SC	CCS		Belize		-999		-999
1	SC	CCS		Huaskin		-999		-999
1	SC	CCS		Walker		-999		-999
1	SC	CCS	S6	Charles		-999		-999
1	SC	CCS		Miriam		-999		-999
1	SC	CCS		Snowdrift		-999		-999
1	SC	CCS	S7	Broughton		-999		-999
1	SC	CCS		Gilford		-999		-999
1	SC	CCS	S8	Ahnuhati-Kwalate		-999		-999
1	SC	CCS		Ahta		-999		-999
1	SC	CCS		Kakweiken		-999		-999
1	SC	CCS	S9	Knight East		-999		-999
1	SC	CCS		Lull-Sallie		-999		-999
2	SC	CCS	S10	Estero		-999		-999
1	SC	CCS		Fulmore		-999		-999
1	SC	CCS		Gray		-999		-999
1	SC	CCS		Thurlow		-999		-999
1	SC	CCS	S11	Phillips		-999		-999
2	SC	CCS		Stafford		-999		-999

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	BC FLOODPLAINS				
				Zipefile name:	Cclrmp_floodplains_no_buffers				MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser. Cclrmp_floodplains_no_buffers		#Obser. Floodplains_with_buffers		
6	NC	NC	1	Anyox		-999		-999	-999
6	NC	NC	2	Aristazabal		-999		-999	-999
6	NC	NC	3	Banks		-999		-999	-999
6	NC	NC	4	Belle Bay		-999		-999	-999
6	NC	NC	5	Big Falls		-999		-999	-999
6	NC	NC	6	Bishop (DNC)	51	1	51	1	-999
6	NC	NC	7	Brown		-999		-999	-999
6	NC	NC	8	Campania		-999		-999	-999
6	NC	NC	9	Captain		-999		-999	-999
6	NC	NC	10	Chambers		-999		-999	-999
6	NC	NC	11	Crab		-999		-999	-999
6	NC	NC	12	Dundas		-999		-999	-999
6	NC	NC	13	Gil		-999		-999	-999
6	NC	NC	14	Gribbell		-999		-999	-999
6	NC	NC	15	Hartley		-999		-999	-999
6	NC	NC	16	Hawkes South		-999		-999	-999
6	NC	NC	17	Hevenor		-999		-999	-999
6	NC	NC	18	Johnston		-999		-999	-999
6	NC	NC	19	Kainen		-999		-999	-999
6	NC	NC	20	Khtada		-999		-999	-999
6	NC	NC	21	Khutzeymateen		-999		-999	-999
6	NC	NC	22	Khyex		-999		-999	-999
6	NC	NC	23	Kiltuish	70	1	70	1	-999
6	NC	NC	24	Kitkiata		-999		-999	-999
6	NC	NC	25	Kitsault		-999		-999	-999
6	NC	NC	26	Kshwan		-999		-999	-999
6	NC	NC	27	Kumealon		-999		-999	-999
6	NC	NC	28	Kwinamass		-999		-999	-999
6	NC	NC	29	Kwinamuck	4286	1	4286	1	-999
6	NC	NC	30	Marmot		-999		-999	-999
6	NC	NC	31	McCauley		-999		-999	-999
6	NC	NC	32	Monckton		-999		-999	-999
6	NC	NC	33	Observatory East		-999		-999	-999
6	NC	NC	34	Observatory West		-999		-999	-999
6	NC	NC	35	Olh		-999		-999	-999
6	NC	NC	36	Pa'aat		-999		-999	-999
6	NC	NC	37	Pearse		-999		-999	-999
6	NC	NC	38	Porcher		-999		-999	-999
6	NC	NC	39	Quottoon		-999		-999	-999
6	NC	NC	40	Red Bluff		-999		-999	-999
6	NC	NC	41	Scotia		-999		-999	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	BC FLOODPLAINS				
				Zipefile name:	Cclrmp_floodplains_no_buffers				MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser. Cclrmp_floodplains_no_buffers		#Obser. Floodplains_with_buffers		
6	NC	NC	42	Skeena Islands		-999		-999	-999
6	NC	NC	43	Somerville		-999		-999	-999
6	NC	NC	44	Sparkling		-999		-999	-999
6	NC	NC	45	Stagoo		-999		-999	-999
6	NC	NC	46	Stephens		-999		-999	-999
6	NC	NC	47	Triumph	66	1	66	1	-999
6	NC	NC	48	Trutch		-999		-999	-999
6	NC	NC	49	Tuck		-999		-999	-999
6	NC	NC	50	Union		-999		-999	-999
5	NC	CCN	N1	Chapple	171	1	171	1	-999
5	NC	CCN		Helmcken	358	1	358	1	-999
5	NC	CCN		Laredo	494	1	494	1	-999
5	NC	CCN		Surf	276	1	276	1	-999
5	NC	CCN	N2	Aaltanhash	130	1	130	1	-999
5	NC	CCN		Butedale	170	1	170	1	-999
5	NC	CCN		Green	192	1	192	1	-999
5	NC	CCN		Khutze	222	1	222	1	-999
5	NC	CCN		Klekane	177	1	177	1	-999
5	NC	CCN		Kynoch	248	1	248	1	-999
5	NC	CCN		Sheep Passage	223	1	223	1	-999
5	NC	CCN		Tolmie	197	1	197	1	-999
5	NC	CCN		Whalen	175	1	175	1	-999
5	NC	CCN	N3	Price	249	1	249	1	-999
5	NC	CCN		Roderick	294	1	294	1	-999
5	NC	CCN		Swindle	222	1	222	1	-999
5	NC	CCN	N4	Don Peninsula	307	1	307	1	-999
5	NC	CCN		Ellerslie	163	1	163	1	-999
5	NC	CCN		Roscoe	240	1	240	1	-999
5	NC	CCN		Yeo	106	1	106	1	-999
5	NC	CCN	N5	Braden	274	1	274	1	-999
5	NC	CCN		King Island	196	1	196	1	-999
5	NC	CCS		Labouchere	237	1	237	1	-999
5	NC	CCN		Nascall	342	1	342	1	-999
5	NC	CCS	N6	Dean	395	1	395	1	-999
5	NC	CCS		Jump Acrross	270	1	270	1	-999
5	NC	CCN		Lower Kimsquit	284	1	284	1	-999
5	NC	CCN		Sutslem/Skowquiltz	361	1	361	1	-999
5	NC	CCN		Upper Kimsquit	331	1	331	1	-999
5	NC	CCS	N7	Atnarko	390	1	390	1	-999
5	NC	CCS		Crag	658	1	658	1	-999
5	NC	CCS		Nechako	824	1	824	1	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	BC FLOODPLAINS				
				Zipefile name:	Cclrmp_floodplains_no_buffers				MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Cclrmp_floodplains_no_buffers	#Obser.	Floodplains_with_buffers	
5	NC	CCS		Sigulat	742	1	742	1	-999
5	NC	CCS		Young	171	1	171	1	-999
5	NC	CCN	N8	Outer Coast Islands	136	1	136	1	-999
5	NC	CCN	N9	Denny	171	1	171	1	-999
5	NC	CCN		Evans	284	1	284	1	-999
5	NC	CCN		Hunter	388	1	388	1	-999
5	NC	CCN	N10	Clyak	356	1	356	1	-999
5	NC	CCN		Kwatna/Quatlena	421	1	421	1	-999
5	NC	CCN		Nootum/Koeye	585	1	585	1	-999
5	NC	CCS		Twin	111	1	111	1	-999
5	NC	CCS	N11	Clayton	79	1	79	1	-999
5	NC	CCS		Smitley/Noeick	403	1	403	1	-999
5	NC	CCS		South Bentinck	246	1	246	1	-999
5	NC	CCS		Taleomey/Asseek	345	1	345	1	-999
5	NC	CCS	N12	Ape	486	1	486	1	-999
5	NC	CCS		Bella Coola	75	1	75	1	-999
5	NC	CCS		Nusatsum	239	1	239	1	-999
5	NC	CCS		Saloompt	425	1	425	1	-999
5	NC	CCS		Talchako/Gyllenspetz	294	1	294	1	-999
5	NC	CCN	N13	Calvert	352	1	352	1	-999
5	NC	CCS	N14	Chukwalla/Kibella	491	1	491	1	-999
5	NC	CCS		Doos/Dallery	251	1	251	1	-999
5	NC	CCS		Kilippi	385	1	385	1	-999
1	NC	CCS		Machmell	391	1	391	1	-999
1	NC	CCS		Neechanz	330	1	330	1	-999
5	NC	CCN		Owikeno	183	1	183	1	-999
5	NC	CCN	N15	Sheemahant	253	1	253	1	-999
5	NC	CCS		Sumquolt	304	1	304	1	-999
5	NC	CCS		Washwash	320	1	320	1	-999
5	NC	CCN	N16	Draney	119	1	119	1	-999
5	NC	CCN		Fish Egg	219	1	219	1	-999
5	NC	CCN		Johnston (DMC)	141	1	141	1	-999
5	NC	CCN		Nekite	142	1	142	1	-999
5	SC	CCS	S1	Draney	153	1	153	1	-999
5	SC	CCS		Nekite	288	1	288	1	-999
5	SC	CCS		Smith Sound	255	1	255	1	-999
5	SC	CCS		Smokehouse	273	1	273	1	-999
1	SC	CCS	S2	Lower Kingcome	346	1	346	1	-999
1	SC	CCS		Seymour	300	1	300	1	-999
1	SC	CCS		Upper Kingcome	530	1	530	1	-999
1	SC	CCS		Wakeman	551	1	551	1	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	BC FLOODPLAINS				
				Zipefile name:	Cclrmp_floodplains_no_buffers				MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Cclrmp_floodplains_no_buffers	#Obser.	Floodplains_with_buffers	
1	SC	CCS	S3	Franklin	454	1	454	1	-999
1	SC	CCS		Klinkaklini Glacier	1007	1	1007	1	-999
1	SC	CCS		Lower Klinaklini	257	1	257	1	-999
1	SC	CCS		Sim	188	1	188	1	-999
5	SC	CCS	S4	Middle Klinaklini	607	1	607	1	-999
5	SC	CCS		Upper Klinaklini	719	1	719	1	-999
1	SC	CCS	S5	Allison	592	1	592	1	-999
1	SC	CCS		Belize	401	1	401	1	-999
1	SC	CCS		Huaskin	185	1	185	1	-999
1	SC	CCS		Walker	13	1	13	1	-999
1	SC	CCS	S6	Charles	89	1	89	1	-999
1	SC	CCS		Miriam	22	1	22	1	-999
1	SC	CCS		Snowdrift	150	1	150	1	-999
1	SC	CCS	S7	Broughton	70	1	70	1	-999
1	SC	CCS		Gilford	413	1	413	1	-999
1	SC	CCS	S8	Ahnuhati-Kwalate	197	1	197	1	-999
1	SC	CCS		Ahta	82	1	82	1	-999
1	SC	CCS		Kakweiken	282	1	282	1	-999
1	SC	CCS	S9	Knight East	159	1	159	1	-999
1	SC	CCS		Lull-Sallie	184	1	184	1	-999
2	SC	CCS	S10	Estero	53	1	53	1	-999
1	SC	CCS		Fulmore	590	1	590	1	-999
1	SC	CCS		Gray	177	1	177	1	-999
1	SC	CCS		Thurlow	234	1	234	1	-999
1	SC	CCS	S11	Phillips	319	1	319	1	-999
2	SC	CCS		Stafford	378	1	378	1	-999

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit		FROGS	
				Zipefile name:		Nc_frogs	MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Nc_frogs	
6	NC	NC	1	Anyox		-999	-999
6	NC	NC	2	Aristazabal		-999	-999
6	NC	NC	3	Banks		-999	-999
6	NC	NC	4	Belle Bay		-999	-999
6	NC	NC	5	Big Falls	10	1	-999
6	NC	NC	6	Bishop (DNC)		-999	-999
6	NC	NC	7	Brown		-999	-999
6	NC	NC	8	Campania		-999	-999
6	NC	NC	9	Captain		-999	-999
6	NC	NC	10	Chambers		-999	-999
6	NC	NC	11	Crab		-999	-999
6	NC	NC	12	Dundas		-999	-999
6	NC	NC	13	Gil		-999	-999
6	NC	NC	14	Gribbell		-999	-999
6	NC	NC	15	Hartley		-999	-999
6	NC	NC	16	Hawkes South		-999	-999
6	NC	NC	17	Hevenor		-999	-999
6	NC	NC	18	Johnston		-999	-999
6	NC	NC	19	Kainen	7	1	-999
6	NC	NC	20	Khtada		-999	-999
6	NC	NC	21	Khutzeymateen		-999	-999
6	NC	NC	22	Khyex	2	1	-999
6	NC	NC	23	Kiltuish		-999	-999
6	NC	NC	24	Kitkiata		-999	-999
6	NC	NC	25	Kitsault		-999	-999
6	NC	NC	26	Kshwan		-999	-999
6	NC	NC	27	Kumealon		-999	-999
6	NC	NC	28	Kwinamass		-999	-999
6	NC	NC	29	Kwinamuck		-999	-999
6	NC	NC	30	Marmot		-999	-999
6	NC	NC	31	McCauley		-999	-999
6	NC	NC	32	Monckton		-999	-999
6	NC	NC	33	Observatory East		-999	-999
6	NC	NC	34	Observatory West		-999	-999
6	NC	NC	35	Olh		-999	-999
6	NC	NC	36	Pa'aat		-999	-999
6	NC	NC	37	Pearse		-999	-999
6	NC	NC	38	Porcher		-999	-999
6	NC	NC	39	Quottoon		-999	-999
6	NC	NC	40	Red Bluff		-999	-999
6	NC	NC	41	Scotia	7	1	-999
6	NC	NC	42	Skeena Islands	2	1	-999
6	NC	NC	43	Somerville		-999	-999
6	NC	NC	44	Sparkling		-999	-999
6	NC	NC	45	Stagoo		-999	-999
6	NC	NC	46	Stephens		-999	-999
6	NC	NC	47	Triumph		-999	-999
6	NC	NC	48	Trutch		-999	-999
6	NC	NC	49	Tuck		-999	-999
6	NC	NC	50	Union		-999	-999
5	NC	CCN	N1	Chapple		-999	-999
5	NC	CCN		Helmcken		-999	-999
5	NC	CCN		Laredo		-999	-999
5	NC	CCN		Surf		-999	-999
5	NC	CCN	N2	Aaltanhash		-999	-999
5	NC	CCN		Butedale		-999	-999
5	NC	CCN		Green		-999	-999
5	NC	CCN		Khutze		-999	-999
5	NC	CCN		Klekane		-999	-999
5	NC	CCN		Kynoch		-999	-999
5	NC	CCN		Sheep Passage		-999	-999
5	NC	CCN		Tolmie		-999	-999
5	NC	CCN		Whalen		-999	-999
5	NC	CCN	N3	Price		-999	-999
5	NC	CCN		Roderick		-999	-999
5	NC	CCN		Swindle		-999	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit		FROGS	
				Zipefile name:		Nc_frogs	MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Nc_frogs	
5	NC	CCN	N4	Don Peninsula		-999	-999
5	NC	CCN		Ellerslie		-999	-999
5	NC	CCN		Roscoe		-999	-999
5	NC	CCN		Yeo		-999	-999
5	NC	CCN	N5	Braden		-999	-999
5	NC	CCN		King Island		-999	-999
5	NC	CCS		Labouchere		-999	-999
5	NC	CCN		Nascall		-999	-999
5	NC	CCS	N6	Dean		-999	-999
5	NC	CCS		Jump Acrross		-999	-999
5	NC	CCN		Lower Kimsquit		-999	-999
5	NC	CCN		Sutslem/Skowquiltz		-999	-999
5	NC	CCN		Upper Kimsquit		-999	-999
5	NC	CCS	N7	Atnarko		-999	-999
5	NC	CCS		Crag		-999	-999
5	NC	CCS		Nechako		-999	-999
5	NC	CCS		Sigulat		-999	-999
5	NC	CCS		Young		-999	-999
5	NC	CCN	N8	Outer Coast Islands		-999	-999
5	NC	CCN	N9	Denny		-999	-999
5	NC	CCN		Evans		-999	-999
5	NC	CCN		Hunter		-999	-999
5	NC	CCN	N10	Clyak		-999	-999
5	NC	CCN		Kwatna/Quatlena		-999	-999
5	NC	CCN		Nootum/Koeye		-999	-999
5	NC	CCS		Twin		-999	-999
5	NC	CCS	N11	Clayton		-999	-999
5	NC	CCS		Smitley/Noeick		-999	-999
5	NC	CCS		South Bentinck		-999	-999
5	NC	CCS		Taleomey/Asseek		-999	-999
5	NC	CCS	N12	Ape		-999	-999
5	NC	CCS		Bella Coola		-999	-999
5	NC	CCS		Nusatsum		-999	-999
5	NC	CCS		Saloompt		-999	-999
5	NC	CCS		Talchako/Gyllenspetz		-999	-999
5	NC	CCN	N13	Calvert		-999	-999
5	NC	CCS	N14	Chukwalla/Kibella		-999	-999
5	NC	CCS		Doos/Dallery		-999	-999
5	NC	CCS		Kilippi		-999	-999
1	NC	CCS		Machmell		-999	-999
1	NC	CCS		Neechanz		-999	-999
5	NC	CCN		Owikeno		-999	-999
5	NC	CCN	N15	Sheemahant		-999	-999
5	NC	CCS		Sumquolt		-999	-999
5	NC	CCS		Washwash		-999	-999
5	NC	CCN	N16	Draney		-999	-999
5	NC	CCN		Fish Egg		-999	-999
5	NC	CCN		Johnston (DMC)		-999	-999
5	NC	CCN		Nekite		-999	-999
5	SC	CCS	S1	Draney		-999	-999
5	SC	CCS		Nekite		-999	-999
5	SC	CCS		Smith Sound		-999	-999
5	SC	CCS		Smokehouse		-999	-999
1	SC	CCS	S2	Lower Kingcome		-999	-999
1	SC	CCS		Seymour		-999	-999
1	SC	CCS		Upper Kingcome		-999	-999
1	SC	CCS		Wakeman		-999	-999
1	SC	CCS	S3	Franklin		-999	-999
1	SC	CCS		Klinkaklini Glacier		-999	-999
1	SC	CCS		Lower Klinaklini		-999	-999
1	SC	CCS		Sim		-999	-999
5	SC	CCS	S4	Middle Klinaklini		-999	-999
5	SC	CCS		Upper Klinaklini		-999	-999
1	SC	CCS	S5	Allison		-999	-999
1	SC	CCS		Belize		-999	-999
1	SC	CCS		Huaskin		-999	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit		FROGS	
				Zipefile name:		Nc_frogs	MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Nc_frogs	
1	SC	CCS		Walker		-999	-999
1	SC	CCS	S6	Charles		-999	-999
1	SC	CCS		Miriam		-999	-999
1	SC	CCS		Snowdrift		-999	-999
1	SC	CCS	S7	Broughton		-999	-999
1	SC	CCS		Gilford		-999	-999
1	SC	CCS	S8	Ahnuhati-Kwalate		-999	-999
1	SC	CCS		Ahta		-999	-999
1	SC	CCS		Kakweiken		-999	-999
1	SC	CCS	S9	Knight East		-999	-999
1	SC	CCS		Lull-Sallie		-999	-999
2	SC	CCS	S10	Estero		-999	-999
1	SC	CCS		Fulmore		-999	-999
1	SC	CCS		Gray		-999	-999
1	SC	CCS		Thurlow		-999	-999
1	SC	CCS	S11	Stafford		-999	-999
2	SC	CCS		Phillips		-999	-999

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	BLACK BEAR					
				Zipefile name:	Grizcap_nc		Grizzly_bear_habitat_classes_non_contributing		Grizzly_bear_habitat_midcoast	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Grizcap_nc	#Obser.	Class_1_class_2_non_contributing_	#Obser.	Grizzly_bear_habitat
6	NC	NC	1	Anyox	4227	1		-999		-999
6	NC	NC	2	Aristazabal	11271	1		-999		-999
6	NC	NC	3	Banks	21711	1	185	1	97	1
6	NC	NC	4	Belle Bay	6540	1	54	1	33	1
6	NC	NC	5	Big Falls	6031	1		-999		-999
6	NC	NC	6	Bishop (DNC)	5698	1		-999		-999
6	NC	NC	7	Brown	5580	1		-999		-999
6	NC	NC	8	Campania	3322	1		-999		-999
6	NC	NC	9	Captain	3786	1		-999		-999
6	NC	NC	10	Chambers	6138	1		-999		-999
6	NC	NC	11	Crab	4022	1		-999		-999
6	NC	NC	12	Dundas	3958	1		-999		-999
6	NC	NC	13	Gil	4720	1	237	1	91	1
6	NC	NC	14	Gribbell	4364	1		-999		-999
6	NC	NC	15	Hartley	11699	1		-999	1	1
6	NC	NC	16	Hawkes South	4353	1	270	1	111	1
6	NC	NC	17	Hevenor	8801	1	256	1	99	1
6	NC	NC	18	Johnston	8013	1		-999		-999
6	NC	NC	19	Kainen	9123	1		-999		-999
6	NC	NC	20	Khtada	4684	1		-999		-999
6	NC	NC	21	Khutzeymateen	7235	1		-999		-999
6	NC	NC	22	Khyex	8918	1		-999		-999
6	NC	NC	23	Kiltuish	4179	1		-999		-999
6	NC	NC	24	Kitkiata	7812	1		-999		-999
6	NC	NC	25	Kitsault	10552	1	23	1	11	1
6	NC	NC	26	Kshwan	4321	1		-999		-999
6	NC	NC	27	Kumealon	8766	1		-999		-999
6	NC	NC	28	Kwinamass	6719	1		-999		-999
6	NC	NC	29	Kwinamuck		-999		-999		-999
6	NC	NC	30	Marmot	6326	1		-999		-999
6	NC	NC	31	McCauley	6929	1		-999		-999
6	NC	NC	32	Monckton	6914	1		-999		-999
6	NC	NC	33	Observatory East	2586	1	61	1	29	1
6	NC	NC	34	Observatory West	3088	1		-999		-999
6	NC	NC	35	Olh	3396	1		-999	5	1
6	NC	NC	36	Pa'aat	3494	1		-999		-999
6	NC	NC	37	Pearse	6757	1	5	1	2	1
6	NC	NC	38	Porcher	9683	1		-999		-999
6	NC	NC	39	Quottoon	8218	1		-999		-999
6	NC	NC	40	Red Bluff	7212	1		-999		-999
6	NC	NC	41	Scotia	6782	1		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	BLACK BEAR					
				Zipefile name:		Grizcap_nc	Grizzly_bear_habitat_classes_non_contributing		Grizzly_bear_habitat_midcoast	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Grizcap_nc	#Obser.	Class_1_class_2_non_contributing_	#Obser.	Grizzly_bear_habitat
6	NC	NC	42	Skeena Islands	1376	1		-999		-999
6	NC	NC	43	Somerville	7992	1	42	1	22	1
6	NC	NC	44	Sparkling	7250	1		-999		-999
6	NC	NC	45	Stagoo	6308	1		-999		-999
6	NC	NC	46	Stephens	1681	1		-999		-999
6	NC	NC	47	Triumph	4357	1	214	1	104	1
6	NC	NC	48	Trutch	4117	1	81	1	38	1
6	NC	NC	49	Tuck	9273	1		-999		-999
6	NC	NC	50	Union	5844	1		-999		-999
5	NC	CCN	N1	Chapple	85	1		-999		-999
5	NC	CCN		Helmcken		-999		-999		-999
5	NC	CCN		Laredo		-999		-999		-999
5	NC	CCN		Surf		-999		-999		-999
5	NC	CCN	N2	Aaltanhash	29	1	186	1	80	1
5	NC	CCN		Butedale		-999		-999		-999
5	NC	CCN		Green		-999		-999		-999
5	NC	CCN		Khutze		-999		-999		-999
5	NC	CCN		Klekane	617	1		-999		-999
5	NC	CCN		Kynoch		-999		-999		-999
5	NC	CCN		Sheep Passage		-999	75	1	61	1
5	NC	CCN		Tolmie		-999		-999		-999
5	NC	CCN		Whalen		-999		-999		-999
5	NC	CCN	N3	Price		-999		-999		-999
5	NC	CCN		Roderick		-999	7	1	98	1
5	NC	CCN		Swindle		-999		-999		-999
5	NC	CCN	N4	Don Peninsula		-999	71	1	56	1
5	NC	CCN		Ellerslie		-999	124	1	70	1
5	NC	CCN		Roscoe		-999	246	1	127	1
5	NC	CCN		Yeo		-999		-999		-999
5	NC	CCN	N5	Braden		-999	377	1	173	1
5	NC	CCN		King Island		-999	204	1	114	1
5	NC	CCS		Labouchere		-999	207	1	106	1
5	NC	CCN		Nascall		-999	227	1	104	1
5	NC	CCS	N6	Dean		-999	385	1	189	1
5	NC	CCS		Jump Acrross		-999	207	1	92	1
5	NC	CCN		Lower Kimsquit		-999	271	1	128	1
5	NC	CCN		Sutslem/Skowquiltz		-999	320	1	212	1
5	NC	CCN		Upper Kimsquit		-999	386	1	235	1
5	NC	CCS	N7	Atnarko		-999		-999		-999
5	NC	CCS		Crag		-999	79	1	33	1
5	NC	CCS		Nechako		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	BLACK BEAR					
				Zipefile name:	Grizcap_nc		Grizzly_bear_habitat_classes_non_contributing		Grizzly_bear_habitat_midcoast	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Grizcap_nc	#Obser.	Class_1_class_2_non_contributing_	#Obser.	Grizzly_bear_habitat
5	NC	CCS		Sigulat		-999		-999		-999
5	NC	CCS		Young		-999		-999		-999
5	NC	CCN	N8	Outer Coast Islands		-999		-999		-999
5	NC	CCN	N9	Denny		-999		-999		-999
5	NC	CCN		Evans		-999	83	1	42	1
5	NC	CCN		Hunter		-999		-999		-999
5	NC	CCN	N10	Clyak		-999	428	1	222	1
5	NC	CCN		Kwatna/Quatlena		-999	290	1	196	1
5	NC	CCN		Nootum/Koeye		-999	60	1	119	1
5	NC	CCS		Twin		-999	120	1	60	1
5	NC	CCS	N11	Clayton		-999		-999		-999
5	NC	CCS		Smitley/Noeick		-999		-999		-999
5	NC	CCS		South Bentinck		-999	2	1	3	1
5	NC	CCS		Taleomey/Asseek		-999		-999		-999
5	NC	CCS	N12	Ape		-999		-999		-999
5	NC	CCS		Bella Coola		-999		-999		-999
5	NC	CCS		Nusatsum		-999		-999		-999
5	NC	CCS		Saloompt		-999		-999		-999
5	NC	CCS		Talchako/Gyllenspetz		-999		-999		-999
5	NC	CCN	N13	Calvert		-999		-999		-999
5	NC	CCS	N14	Chukwalla/Kibella		-999	657	1	327	1
5	NC	CCS		Doos/Dallery		-999	366	1	166	1
5	NC	CCS		Kilippi		-999	154	1	55	1
1	NC	CCS		Machmell		-999	165	1	75	1
1	NC	CCS		Neechanz		-999	321	1	124	1
5	NC	CCN		Owikeno		-999	309	1	157	1
5	NC	CCN	N15	Sheemahant		-999	155	1	111	1
5	NC	CCS		Sumquolt		-999	181	1	107	1
5	NC	CCS		Washwash		-999	334	1	165	1
5	NC	CCN	N16	Draney		-999	15	1	12	1
5	NC	CCN		Fish Egg		-999	9	1	6	1
5	NC	CCN		Johnston (DMC)		-999	112	1	66	1
5	NC	CCN		Nekite		-999	134	1	71	1
5	SC	CCS	S1	Draney		-999		-999		-999
5	SC	CCS		Nekite		-999		-999		-999
5	SC	CCS		Smith Sound		-999		-999		-999
5	SC	CCS		Smokehouse		-999		-999		-999
1	SC	CCS	S2	Lower Kingcome		-999		-999		-999
1	SC	CCS		Seymour		-999		-999		-999
1	SC	CCS		Upper Kingcome		-999		-999		-999
1	SC	CCS		Wakeman		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	BLACK BEAR				
				Zipefile name:	Grizcap_nc	Grizzly_bear_habitat_classes_non_contributing		Grizzly_bear_habitat_midcoast	
1=YES;	-999=NO DATA			Shapefile name:	#Obser. Grizcap_nc	#Obser.	Class_1_class_2_non_contributing_	#Obser.	Grizzly_bear_habitat
1	SC	CCS	S3	Franklin	-999		-999		-999
1	SC	CCS		Klinkaklini Glacier	-999		-999		-999
1	SC	CCS		Lower Klinaklini	-999		-999		-999
1	SC	CCS		Sim	-999		-999		-999
5	SC	CCS	S4	Middle Klinaklini	-999		-999		-999
5	SC	CCS		Upper Klinaklini	-999		-999		-999
1	SC	CCS	S5	Allison	-999		-999		-999
1	SC	CCS		Belize	-999		-999		-999
1	SC	CCS		Huaskin	-999		-999		-999
1	SC	CCS		Walker	-999		-999		-999
1	SC	CCS	S6	Charles	-999		-999		-999
1	SC	CCS		Miriam	-999		-999		-999
1	SC	CCS		Snowdrift	-999		-999		-999
1	SC	CCS	S7	Broughton	-999		-999		-999
1	SC	CCS		Gilford	-999		-999		-999
1	SC	CCS	S8	Ahnuhati-Kwalate	-999		-999		-999
1	SC	CCS		Ahta	-999		-999		-999
1	SC	CCS		Kakweiken	-999		-999		-999
1	SC	CCS	S9	Knight East	-999		-999		-999
1	SC	CCS		Lull-Sallie	-999		-999		-999
2	SC	CCS	S10	Estero	-999		-999		-999
1	SC	CCS		Fulmore	-999		-999		-999
1	SC	CCS		Gray	-999		-999		-999
1	SC	CCS		Thurlow	-999		-999		-999
1	SC	CCS	S11	Stafford	-999		-999		-999
2	SC	CCS		Phillips	-999		-999		-999

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Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	BLACK BEAR					
			Zipefile name:	Scc_schedule6				Tfl39_grizzly	
-999=NO DATA			Shapefile name:	#Obser.	SensitiveGBH_mc_clip	#Obser.	SensitiveGBH_scc	#Obser.	Tfl39_grizzly
NC	NC	1	Anyox		-999	276	-999		-999
NC	NC	2	Aristazabal		-999		-999		-999
NC	NC	3	Banks	66	1		-999		-999
NC	NC	4	Belle Bay	27	1		-999		-999
NC	NC	5	Big Falls		-999	495	1		-999
NC	NC	6	Bishop (DNC)		-999	568	1		-999
NC	NC	7	Brown		-999	483	1		-999
NC	NC	8	Campania		-999	618	1		-999
NC	NC	9	Captain		-999	516	1		-999
NC	NC	10	Chambers		-999		-999		-999
NC	NC	11	Crab		-999		-999		-999
NC	NC	12	Dundas		-999	405	1		-999
NC	NC	13	Gil	66	1		-999		-999
NC	NC	14	Gribbell		-999		-999		-999
NC	NC	15	Hartley	1	1	548	1		-999
NC	NC	16	Hawkes South	54	1		-999		-999
NC	NC	17	Hevenor	73	1		-999		-999
NC	NC	18	Johnston		-999	507	1		-999
NC	NC	19	Kainen		-999	459	1		-999
NC	NC	20	Khtada		-999		-999		-999
NC	NC	21	Khutzeymateen		-999	409	1		-999
NC	NC	22	Khyex		-999		-999		-999
NC	NC	23	Kiltuish		-999	587	1		-999
NC	NC	24	Kitkiata		-999		-999		-999
NC	NC	25	Kitsault	9	1		-999		-999
NC	NC	26	Kshwan		-999	243	1		-999
NC	NC	27	Kumealon		-999		-999		-999
NC	NC	28	Kwinamass		-999		-999		-999
NC	NC	29	Kwinamuck		-999	1	1		-999
NC	NC	30	Marmot		-999	241	1		-999
NC	NC	31	McCauley		-999		-999		-999
NC	NC	32	Monckton		-999		-999		-999
NC	NC	33	Observatory East	26	1		-999		-999
NC	NC	34	Observatory West		-999	317	1		-999
NC	NC	35	Olh	5	1		-999		-999
NC	NC	36	Pa'aat		-999		-999		-999
NC	NC	37	Pearse	3	1		-999		-999
NC	NC	38	Porcher		-999	489	1		-999
NC	NC	39	Quottoon		-999		-999		-999
NC	NC	40	Red Bluff		-999	546	1		-999
NC	NC	41	Scotia		-999	478	-999		-999

Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	BLACK BEAR					
			Zipefile name:	Scc_schedule6				Tfl39_grizzly	
-999=NO DATA			Shapefile name:	#Obser.	SensitiveGBH_mc_clip	#Obser.	SensitiveGBH_scc	#Obser.	Tfl39_grizzly
NC	NC	42	Skeena Islands		-999		-999		-999
NC	NC	43	Somerville	16	1		-999		-999
NC	NC	44	Sparkling		-999		-999		-999
NC	NC	45	Stagoo		-999		-999		-999
NC	NC	46	Stephens		-999	404	1		-999
NC	NC	47	Triumph	63	1		-999		-999
NC	NC	48	Trutch	31	1		-999		-999
NC	NC	49	Tuck		-999	414	1		-999
NC	NC	50	Union		-999		-999		-999
NC	CCN	N1	Chapple		-999		-999		-999
NC	CCN		Helmcken		-999		-999		-999
NC	CCN		Laredo		-999		-999		-999
NC	CCN		Surf		-999	627	1		-999
NC	CCN	N2	Aaltanhash	64	1		-999		-999
NC	CCN		Butedale		-999		-999		-999
NC	CCN		Green		-999		-999		-999
NC	CCN		Khutze		-999		-999		-999
NC	CCN		Klekane		-999	599	1		-999
NC	CCN		Kynoch		-999		-999		-999
NC	CCN		Sheep Passage		-999		-999		-999
NC	CCN		Tolmie		-999		-999		-999
NC	CCN		Whalen		-999		-999		-999
NC	CCN	N3	Price		-999		-999		-999
NC	CCN		Roderick		-999		-999		-999
NC	CCN		Swindle		-999		-999		-999
NC	CCN	N4	Don Peninsula		-999		-999		-999
NC	CCN		Ellerslie		-999		-999		-999
NC	CCN		Roscoe		-999		-999		-999
NC	CCN		Yeo		-999		-999		-999
NC	CCN	N5	Braden		-999		-999		-999
NC	CCN		King Island		-999		-999		-999
NC	CCS		Labouchere	31	1		-999		-999
NC	CCN		Nascall		-999		-999		-999
NC	CCS	N6	Dean	2	1		-999		-999
NC	CCS		Jump Acrross		-999		-999		-999
NC	CCN		Lower Kimsquit		-999		-999		-999
NC	CCN		Sutslem/Skowquiltz		-999		-999		-999
NC	CCN		Upper Kimsquit	50	1		-999		-999
NC	CCS	N7	Atnarko		-999		-999		-999
NC	CCS		Crag		-999		-999		-999
NC	CCS		Nechako		-999		-999		-999

Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	BLACK BEAR					
			Zipefile name:	Scc_schedule6				Tfl39_grizzly	
-999=NO DATA			Shapefile name:	#Obser.	SensitiveGBH_mc_clip	#Obser.	SensitiveGBH_scc	#Obser.	Tfl39_grizzly
NC	CCS		Sigulat		-999		-999		-999
NC	CCS		Young		-999		-999		-999
NC	CCN	N8	Outer Coast Islands		-999		-999		-999
NC	CCN	N9	Denny		-999		-999		-999
NC	CCN		Evans		-999		-999		-999
NC	CCN		Hunter		-999		-999		-999
NC	CCN	N10	Clyak		-999		-999		-999
NC	CCN		Kwatna/Quatlena		-999		-999	1	1
NC	CCN		Nootum/Koeye		-999		-999	176	1
NC	CCS		Twin		-999		-999		-999
NC	CCS	N11	Clayton		-999		-999		-999
NC	CCS		Smitley/Noeick		-999		-999		-999
NC	CCS		South Bentinck		-999		-999		-999
NC	CCS		Taleomey/Asseek		-999		-999		-999
NC	CCS	N12	Ape		-999		-999		-999
NC	CCS		Bella Coola		-999		-999		-999
NC	CCS		Nusatsum		-999		-999		-999
NC	CCS		Saloompt		-999		-999		-999
NC	CCS		Talchako/Gyllenspetz		-999		-999		-999
NC	CCN	N13	Calvert		-999		-999		-999
NC	CCS	N14	Chukwalla/Kibella		-999		-999		-999
NC	CCS		Doos/Dallery		-999		-999		-999
NC	CCS		Kilippi		-999		-999		-999
NC	CCS		Machmell		-999		-999		-999
NC	CCS		Neechanz		-999		-999		-999
NC	CCN		Owikeno		-999		-999		-999
NC	CCN	N15	Sheemahant		-999		-999		-999
NC	CCS		Sumquolt		-999		-999		-999
NC	CCS		Washwash		-999		-999		-999
NC	CCN	N16	Draney		-999		-999		-999
NC	CCN		Fish Egg		-999		-999		-999
NC	CCN		Johnston (DMC)		-999		-999		-999
NC	CCN		Nekite		-999		-999		-999
SC	CCS	S1	Draney		-999		-999		-999
SC	CCS		Nekite		-999		-999		-999
SC	CCS		Smith Sound		-999		-999		-999
SC	CCS		Smokehouse		-999		-999		-999
SC	CCS	S2	Lower Kingcome		-999		-999		-999
SC	CCS		Seymour		-999		-999		-999
SC	CCS		Upper Kingcome		-999		-999		-999
SC	CCS		Wakeman		-999		-999		-999

Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	BLACK BEAR					
			Zipefile name:	Scc_schedule6				Tfl39_grizzly	
-999=NO DATA			Shapefile name:	#Obser.	SensitiveGBH_mc_clip	#Obser.	SensitiveGBH_scc	#Obser.	Tfl39_grizzly
SC	CCS	S3	Franklin		-999		-999		-999
SC	CCS		Klinkaklini Glacier		-999		-999		-999
SC	CCS		Lower Klinaklini		-999		-999		-999
SC	CCS		Sim		-999		-999		-999
SC	CCS	S4	Middle Klinaklini		-999		-999		-999
SC	CCS		Upper Klinaklini		-999		-999		-999
SC	CCS	S5	Allison		-999		-999		-999
SC	CCS		Belize		-999		-999		-999
SC	CCS		Huaskin		-999		-999		-999
SC	CCS		Walker		-999		-999		-999
SC	CCS	S6	Charles		-999		-999		-999
SC	CCS		Miriam		-999		-999		-999
SC	CCS		Snowdrift		-999		-999		-999
SC	CCS	S7	Broughton		-999		-999		-999
SC	CCS		Gilford		-999		-999		-999
SC	CCS	S8	Ahnuhati-Kwalate		-999		-999		-999
SC	CCS		Ahta		-999		-999		-999
SC	CCS		Kakweiken		-999		-999		-999
SC	CCS	S9	Knight East		-999		-999		-999
SC	CCS		Lull-Sallie		-999		-999		-999
SC	CCS	S10	Estero		-999		-999		-999
SC	CCS		Fulmore		-999		-999		-999
SC	CCS		Gray		-999		-999		-999
SC	CCS		Thurlow		-999		-999		-999
SC	CCS	S11	Stafford		-999		-999		-999
SC	CCS		Phillips		-999		-999		-999

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	BLACK BEAR	
				Zipefile name:	SACR	MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser. Prop_SACR_whas	
6	NC	NC	1	Anyox	-999	-999
6	NC	NC	2	Aristazabal	-999	-999
6	NC	NC	3	Banks	-999	-999
6	NC	NC	4	Belle Bay	-999	-999
6	NC	NC	5	Big Falls	-999	-999
6	NC	NC	6	Bishop (DNC)	-999	-999
6	NC	NC	7	Brown	-999	-999
6	NC	NC	8	Campania	-999	-999
6	NC	NC	9	Captain	-999	-999
6	NC	NC	10	Chambers	-999	-999
6	NC	NC	11	Crab	-999	-999
6	NC	NC	12	Dundas	-999	-999
6	NC	NC	13	Gil	-999	-999
6	NC	NC	14	Gribbell	-999	-999
6	NC	NC	15	Hartley	-999	-999
6	NC	NC	16	Hawkes South	-999	-999
6	NC	NC	17	Hevenor	-999	-999
6	NC	NC	18	Johnston	-999	-999
6	NC	NC	19	Kainen	-999	-999
6	NC	NC	20	Khtada	-999	-999
6	NC	NC	21	Khutzeymateen	-999	-999
6	NC	NC	22	Khyex	-999	-999
6	NC	NC	23	Kiltuish	-999	-999
6	NC	NC	24	Kitkiata	-999	-999
6	NC	NC	25	Kitsault	-999	-999
6	NC	NC	26	Kshwan	-999	-999
6	NC	NC	27	Kumealon	-999	-999
6	NC	NC	28	Kwinamass	-999	-999
6	NC	NC	29	Kwinamuck	-999	-999
6	NC	NC	30	Marmot	-999	-999
6	NC	NC	31	McCauley	-999	-999
6	NC	NC	32	Monckton	-999	-999
6	NC	NC	33	Observatory East	-999	-999
6	NC	NC	34	Observatory West	-999	-999
6	NC	NC	35	Olh	-999	-999
6	NC	NC	36	Pa'aat	-999	-999
6	NC	NC	37	Pearse	-999	-999
6	NC	NC	38	Porcher	-999	-999
6	NC	NC	39	Quottoon	-999	-999
6	NC	NC	40	Red Bluff	-999	-999
6	NC	NC	41	Scotia	-999	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	BLACK BEAR		
				Zipefile name:	SACR		MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Prop_SACR_whas	
6	NC	NC	42	Skeena Islands		-999	-999
6	NC	NC	43	Somerville		-999	-999
6	NC	NC	44	Sparkling		-999	-999
6	NC	NC	45	Stagoo		-999	-999
6	NC	NC	46	Stephens		-999	-999
6	NC	NC	47	Triumph		-999	-999
6	NC	NC	48	Trutch		-999	-999
6	NC	NC	49	Tuck		-999	-999
6	NC	NC	50	Union		-999	-999
5	NC	CCN	N1	Chapple		-999	-999
5	NC	CCN		Helmcken		-999	-999
5	NC	CCN		Laredo		-999	-999
5	NC	CCN		Surf		-999	-999
5	NC	CCN	N2	Aaltanhash		-999	-999
5	NC	CCN		Butedale		-999	-999
5	NC	CCN		Green		-999	-999
5	NC	CCN		Khutze		-999	-999
5	NC	CCN		Klekane		-999	-999
5	NC	CCN		Kynoch		-999	1
5	NC	CCN		Sheep Passage		-999	1
5	NC	CCN		Tolmie		-999	-999
5	NC	CCN		Whalen		-999	-999
5	NC	CCN	N3	Price		-999	-999
5	NC	CCN		Roderick		-999	1
5	NC	CCN		Swindle		-999	-999
5	NC	CCN	N4	Don Peninsula		-999	1
5	NC	CCN		Ellerslie		-999	1
5	NC	CCN		Roscoe		-999	1
5	NC	CCN		Yeo		-999	-999
5	NC	CCN	N5	Braden		-999	1
5	NC	CCN		King Island		-999	1
5	NC	CCS		Labouchere		-999	1
5	NC	CCN		Nascall		-999	1
5	NC	CCS	N6	Dean		-999	1
5	NC	CCS		Jump Acrross		-999	1
5	NC	CCN		Lower Kimsquit		-999	1
5	NC	CCN		Sutslem/Skowquiltz		-999	1
5	NC	CCN		Upper Kimsquit		-999	1
5	NC	CCS	N7	Atnarko		-999	-999
5	NC	CCS		Crag		-999	1
5	NC	CCS		Nechako		-999	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	BLACK BEAR		
				Zipefile name:	SACR		MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Prop_SACR_whas	
5	NC	CCS		Sigulat		-999	-999
5	NC	CCS		Young		-999	-999
5	NC	CCN	N8	Outer Coast Islands		-999	-999
5	NC	CCN	N9	Denny	7	1	-999
5	NC	CCN		Evans		-999	-999
5	NC	CCN		Hunter	5	1	-999
5	NC	CCN	N10	Clyak		-999	1
5	NC	CCN		Kwatna/Quatlena		-999	1
5	NC	CCN		Nootum/Koeye		-999	1
5	NC	CCS		Twin		-999	1
5	NC	CCS	N11	Clayton		-999	1
5	NC	CCS		Smitley/Noeick		-999	-999
5	NC	CCS		South Bentinck		-999	1
5	NC	CCS		Taleomey/Asseek		-999	-999
5	NC	CCS	N12	Ape		-999	-999
5	NC	CCS		Bella Coola		-999	1
5	NC	CCS		Nusatsum		-999	1
5	NC	CCS		Saloompt		-999	1
5	NC	CCS		Talchako/Gyllenspetz		-999	1
5	NC	CCN	N13	Calvert		-999	-999
5	NC	CCS	N14	Chukwalla/Kibella		-999	1
5	NC	CCS		Doos/Dallery		-999	1
5	NC	CCS		Kilippi		-999	1
1	NC	CCS		Machmell		-999	1
1	NC	CCS		Neechanz		-999	1
5	NC	CCN		Owikeno		-999	1
5	NC	CCN	N15	Sheemahant		-999	1
5	NC	CCS		Sumquolt		-999	1
5	NC	CCS		Washwash		-999	-999
5	NC	CCN	N16	Draney		-999	-999
5	NC	CCN		Fish Egg		-999	-999
5	NC	CCN		Johnston (DMC)		-999	-999
5	NC	CCN		Nekite		-999	-999
5	SC	CCS	S1	Draney		-999	-999
5	SC	CCS		Nekite		-999	1
5	SC	CCS		Smith Sound		-999	1
5	SC	CCS		Smokehouse		-999	1
1	SC	CCS	S2	Lower Kingcome		-999	1
1	SC	CCS		Seymour		-999	1
1	SC	CCS		Upper Kingcome		-999	1
1	SC	CCS		Wakeman		-999	1

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	BLACK BEAR		
				Zipefile name:	SACR		MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Prop_SACR_whas	
1	SC	CCS	S3	Franklin		-999	1
1	SC	CCS		Klinkaklini Glacier		-999	1
1	SC	CCS		Lower Klinaklini		-999	1
1	SC	CCS		Sim		-999	1
5	SC	CCS	S4	Middle Klinaklini		-999	1
5	SC	CCS		Upper Klinaklini		-999	-999
1	SC	CCS	S5	Allison		-999	1
1	SC	CCS		Belize		-999	1
1	SC	CCS		Huaskin		-999	1
1	SC	CCS		Walker		-999	-999
1	SC	CCS	S6	Charles		-999	1
1	SC	CCS		Miriam		-999	1
1	SC	CCS		Snowdrift		-999	1
1	SC	CCS	S7	Broughton		-999	1
1	SC	CCS		Gilford		-999	1
1	SC	CCS	S8	Ahnuhati-Kwalate		-999	1
1	SC	CCS		Ahta		-999	1
1	SC	CCS		Kakweiken		-999	1
1	SC	CCS	S9	Knight East		-999	1
1	SC	CCS		Lull-Sallie		-999	1
2	SC	CCS	S10	Estero		-999	1
1	SC	CCS		Fulmore		-999	1
1	SC	CCS		Gray		-999	1
1	SC	CCS		Thurlow		-999	1
1	SC	CCS	S11	Stafford		-999	1
2	SC	CCS		Phillips		-999	1

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	GOAT							
				Zipefile name:	Goat_UWR_6-001_jan07		North Coast GWR 2006 Shape Files				ORAM_wr	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Goat_uwr_6-001_jan07	#Obser.	Nc_gwr_2006	#Obser.	2005_2006_waypoints_alb	#Obser.	Oram_wr
6	NC	NC	1	Anyox	1	1	1	1		-999		-999
6	NC	NC	2	Aristazabal		-999		-999		-999		-999
6	NC	NC	3	Banks		-999		-999		-999		-999
6	NC	NC	4	Belle Bay	2	1	2	1		-999		-999
6	NC	NC	5	Big Falls	8	1	8	1		-999		-999
6	NC	NC	6	Bishop (DNC)	2	1	2	1		-999		-999
6	NC	NC	7	Brown		-999		-999		-999		-999
6	NC	NC	8	Campania		-999		-999		-999		-999
6	NC	NC	9	Captain		-999		-999		-999		-999
6	NC	NC	10	Chambers	30	1	30	1	52	1		-999
6	NC	NC	11	Crab	1	1	1	1		-999		-999
6	NC	NC	12	Dundas		-999		-999		-999		-999
6	NC	NC	13	Gil		-999		-999		-999		-999
6	NC	NC	14	Gribbell		-999		-999		-999		-999
6	NC	NC	15	Hartley	11	1	13	1	20	1		-999
6	NC	NC	16	Hawkes South		-999		-999		-999		-999
6	NC	NC	17	Hevenor	1	1	1	1		-999		-999
6	NC	NC	18	Johnston		-999		-999		-999		-999
6	NC	NC	19	Kainen	1	1	1	1	2	1		-999
6	NC	NC	20	Khtada	4	1	4	1		-999		-999
6	NC	NC	21	Khutzeymateen		-999	61	1	115	1		-999
6	NC	NC	22	Khyex	31	1	31	1	47	1		-999
6	NC	NC	23	Kiltuish	4	1	4	1		-999		-999
6	NC	NC	24	Kitkiata	12	1	12	1	14	1		-999
6	NC	NC	25	Kitsault		-999	1	1	1	1		-999
6	NC	NC	26	Kshwan		-999		-999		-999		-999
6	NC	NC	27	Kumealon		-999		-999		-999		-999
6	NC	NC	28	Kwinamass	32	1	31	1	65	1		-999
6	NC	NC	29	Kwinamuck		-999		-999		-999		-999
6	NC	NC	30	Marmot	3	1	3	1		-999		-999
6	NC	NC	31	McCauley		-999		-999		-999		-999
6	NC	NC	32	Monckton		-999		-999		-999		-999
6	NC	NC	33	Observatory East	1	1	1	1	1	1		-999
6	NC	NC	34	Observatory West	1	1	1	1	1	1		-999
6	NC	NC	35	Olh		-999		-999		-999		-999
6	NC	NC	36	Pa'aat		-999		-999		-999		-999
6	NC	NC	37	Pearse		-999		-999		-999		-999
6	NC	NC	38	Porcher		-999		-999		-999		-999
6	NC	NC	39	Quottoon	37	1	37	1	86	1		-999
6	NC	NC	40	Red Bluff		-999		-999		-999		-999
6	NC	NC	41	Scotia	6	1	6	1		-999		-999
6	NC	NC	42	Skeena Islands		-999		-999		-999		-999
6	NC	NC	43	Somerville	7	1	13	1	31	1		-999
6	NC	NC	44	Sparkling		-999		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	GOAT							
				Zipefile name:	Goat_UWR_6-001_jan07		North Coast GWR 2006 Shape Files				ORAM_wr	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Goat_uwr_6-001_jan07	#Obser.	Nc_gwr_2006	#Obser.	2005_2006_waypoints_alb	#Obser.	Oram_wr
6	NC	NC	45	Stagoo	3	1	10	1	5	1		-999
6	NC	NC	46	Stephens		-999		-999		-999		-999
6	NC	NC	47	Triumph	2	1	2	1		-999		-999
6	NC	NC	48	Trutch		-999		-999		-999		-999
6	NC	NC	49	Tuck		-999		-999		-999		-999
6	NC	NC	50	Union	4	1	4	1		-999		-999
5	NC	CCN	N1	Chapple		-999		-999		-999		-999
5	NC	CCN		Helmcken		-999		-999		-999		-999
5	NC	CCN		Laredo		-999		-999		-999		-999
5	NC	CCN		Surf		-999		-999		-999		-999
5	NC	CCN	N2	Aaltanhash		-999		-999		-999		-999
5	NC	CCN		Butedale		-999		-999		-999		-999
5	NC	CCN		Green		-999		-999		-999		-999
5	NC	CCN		Khutze		-999		-999		-999		-999
5	NC	CCN		Klekane		-999		-999		-999		-999
5	NC	CCN		Kynoch		-999		-999		-999		-999
5	NC	CCN		Sheep Passage		-999		-999		-999	5	1
5	NC	CCN		Tolmie		-999		-999		-999		-999
5	NC	CCN		Whalen		-999		-999		-999		-999
5	NC	CCN	N3	Price		-999		-999		-999		-999
5	NC	CCN		Roderick		-999		-999		-999		-999
5	NC	CCN		Swindle		-999		-999		-999		-999
5	NC	CCN	N4	Don Peninsula		-999		-999		-999	11	1
5	NC	CCN		Ellerslie		-999		-999		-999	22	1
5	NC	CCN		Roscoe		-999		-999		-999	25	1
5	NC	CCN		Yeo		-999		-999		-999	8	1
5	NC	CCN	N5	Braden		-999		-999		-999	45	1
5	NC	CCN		King Island		-999		-999		-999		-999
5	NC	CCS		Labouchere		-999		-999		-999	42	1
5	NC	CCN		Nascall		-999		-999		-999	47	1
5	NC	CCS	N6	Dean		-999		-999		-999	53	1
5	NC	CCS		Jump Acrross		-999		-999		-999	34	1
5	NC	CCN		Lower Kimsquit		-999		-999		-999	34	1
5	NC	CCN		Sutslem/Skowquiltz		-999		-999		-999	32	1
5	NC	CCN		Upper Kimsquit		-999		-999		-999	26	1
5	NC	CCS	N7	Atnarko		-999		-999		-999		-999
5	NC	CCS		Crag		-999		-999		-999	12	1
5	NC	CCS		Nechako		-999		-999		-999		-999
5	NC	CCS		Sigulat		-999		-999		-999		-999
5	NC	CCS		Young		-999		-999		-999		-999
5	NC	CCN	N8	Outer Coast Islands		-999		-999		-999		-999
5	NC	CCN	N9	Denny		-999		-999		-999		-999
5	NC	CCN		Evans		-999		-999		-999		-999
5	NC	CCN		Hunter		-999		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	GOAT					
				Zipefile name:	Goat_UWR_6-001_jan07		North Coast GWR 2006 Shape Files		ORAM_wr	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Goat_uwr_6-001_jan07	#Obser. Nc_gwr_2006	#Obser. 2005_2006_waypoints_alb	#Obser.	Oram_wr
5	NC	CCN	N10	Clyak		-999	-999	-999	45	1
5	NC	CCN		Kwatna/Quatlena		-999	-999	-999	46	1
5	NC	CCN		Nootum/Koeye		-999	-999	-999	6	1
5	NC	CCS		Twin		-999	-999	-999	13	1
5	NC	CCS	N11	Clayton		-999	-999	-999	18	1
5	NC	CCS		Smitley/Noeick		-999	-999	-999	27	1
5	NC	CCS		South Bentinck		-999	-999	-999	26	1
5	NC	CCS		Taleomey/Asseek		-999	-999	-999	23	1
5	NC	CCS	N12	Ape		-999	-999	-999	5	1
5	NC	CCS		Bella Coola		-999	-999	-999	8	1
5	NC	CCS		Nusatsum		-999	-999	-999	37	1
5	NC	CCS		Saloompt		-999	-999	-999	58	1
5	NC	CCS		Talchako/Gyllenspetz		-999	-999	-999	26	1
5	NC	CCN	N13	Calvert		-999	-999	-999		-999
5	NC	CCS	N14	Chukwalla/Kibella		-999	-999	-999	32	1
5	NC	CCS		Doos/Dallery		-999	-999	-999	51	1
5	NC	CCS		Kilippi		-999	-999	-999	16	1
1	NC	CCS		Machmell		-999	-999	-999	28	1
1	NC	CCS		Neechanz		-999	-999	-999	18	1
5	NC	CCN		Owikeno		-999	-999	-999	33	1
5	NC	CCN	N15	Sheemahant		-999	-999	-999	46	1
5	NC	CCS		Sumquolt		-999	-999	-999	15	1
5	NC	CCS		Washwash		-999	-999	-999	33	1
5	NC	CCN	N16	Draney		-999	-999	-999		-999
5	NC	CCN		Fish Egg		-999	-999	-999		-999
5	NC	CCN		Johnston (DMC)		-999	-999	-999	12	1
5	NC	CCN		Nekite		-999	-999	-999	18	1
5	SC	CCS	S1	Draney		-999	-999	-999		-999
5	SC	CCS		Nekite		-999	-999	-999	40	1
5	SC	CCS		Smith Sound		-999	-999	-999		-999
5	SC	CCS		Smokehouse		-999	-999	-999	23	1
1	SC	CCS	S2	Lower Kingcome		-999	-999	-999		-999
1	SC	CCS		Seymour		-999	-999	-999		-999
1	SC	CCS		Upper Kingcome		-999	-999	-999		-999
1	SC	CCS		Wakeman		-999	-999	-999		-999
1	SC	CCS	S3	Franklin		-999	-999	-999		-999
1	SC	CCS		Klinkaklini Glacier		-999	-999	-999		-999
1	SC	CCS		Lower Klinaklini		-999	-999	-999		-999
1	SC	CCS		Sim		-999	-999	-999		-999
5	SC	CCS	S4	Middle Klinaklini		-999	-999	-999		-999
5	SC	CCS		Upper Klinaklini		-999	-999	-999		-999
1	SC	CCS	S5	Allison		-999	-999	-999		-999
1	SC	CCS		Belize		-999	-999	-999		-999
1	SC	CCS		Huaskin		-999	-999	-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	GOAT					
				Zipefile name:	Goat_UWR_6-001_jan07		North Coast GWR 2006 Shape Files		ORAM_wr	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Goat_uwr_6-001_jan07	#Obser.	Nc_gwr_2006	#Obser.	2005_2006_waypoints_alb	#Obser.	Oram_wr
1	SC	CCS		Walker		-999		-999		-999		-999
1	SC	CCS	S6	Charles		-999		-999		-999		-999
1	SC	CCS		Miriam		-999		-999		-999		-999
1	SC	CCS		Snowdrift		-999		-999		-999		-999
1	SC	CCS	S7	Broughton		-999		-999		-999		-999
1	SC	CCS		Gilford		-999		-999		-999		-999
1	SC	CCS	S8	Ahnuhati-Kwalate		-999		-999		-999		-999
1	SC	CCS		Ahta		-999		-999		-999		-999
1	SC	CCS		Kakweiken		-999		-999		-999		-999
1	SC	CCS	S9	Knight East		-999		-999		-999		-999
1	SC	CCS		Lull-Sallie		-999		-999		-999		-999
2	SC	CCS	S10	Estero		-999		-999		-999		-999
1	SC	CCS		Fulmore		-999		-999		-999		-999
1	SC	CCS		Gray		-999		-999		-999		-999
1	SC	CCS		Thurlow		-999		-999		-999		-999
1	SC	CCS	S11	Phillips		-999		-999		-999		-999
2	SC	CCS		Stafford		-999		-999		-999		-999

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	GOAT		
				Zipefile name:	Proposed_UWR_Goat_North_Coast		MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Proposed_uwr_goat_north_coast	
6	NC	NC	1	Anyox	1	1	-999
6	NC	NC	2	Aristazabal		-999	-999
6	NC	NC	3	Banks		-999	-999
6	NC	NC	4	Belle Bay	4	1	-999
6	NC	NC	5	Big Falls	8	1	-999
6	NC	NC	6	Bishop (DNC)	6	1	-999
6	NC	NC	7	Brown		-999	-999
6	NC	NC	8	Campania		-999	-999
6	NC	NC	9	Captain		-999	-999
6	NC	NC	10	Chambers	30	1	-999
6	NC	NC	11	Crab	1	1	-999
6	NC	NC	12	Dundas		-999	-999
6	NC	NC	13	Gil		-999	-999
6	NC	NC	14	Gribbell		-999	-999
6	NC	NC	15	Hartley	14	1	-999
6	NC	NC	16	Hawkes South		-999	-999
6	NC	NC	17	Hevenor	1	1	-999
6	NC	NC	18	Johnston		-999	-999
6	NC	NC	19	Kainen	1	1	-999
6	NC	NC	20	Khtada	4	1	-999
6	NC	NC	21	Khutzeymateen		-999	-999
6	NC	NC	22	Khyex	25	1	-999
6	NC	NC	23	Kiltuish	4	1	-999
6	NC	NC	24	Kitkiata	10	1	-999
6	NC	NC	25	Kitsault		-999	-999
6	NC	NC	26	Kshwan		-999	-999
6	NC	NC	27	Kumealon		-999	-999
6	NC	NC	28	Kwinamass	31	1	-999
6	NC	NC	29	Kwinamuck		-999	-999
6	NC	NC	30	Marmot	6	1	-999
6	NC	NC	31	McCauley		-999	-999
6	NC	NC	32	Monckton		-999	-999
6	NC	NC	33	Observatory East	1	1	-999
6	NC	NC	34	Observatory West		-999	-999
6	NC	NC	35	Olh		-999	-999
6	NC	NC	36	Pa'aat		-999	-999
6	NC	NC	37	Pearse		-999	-999
6	NC	NC	38	Porcher		-999	-999
6	NC	NC	39	Quottoon	43	1	-999
6	NC	NC	40	Red Bluff		-999	-999
6	NC	NC	41	Scotia	8	1	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	GOAT		
				Zipefile name:	Proposed_UWR_Goat_North_Coast		MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Proposed_uwr_goat_north_coast	
6	NC	NC	42	Skeena Islands		-999	-999
6	NC	NC	43	Somerville	10	1	-999
6	NC	NC	44	Sparkling		-999	-999
6	NC	NC	45	Stagoo	3	1	-999
6	NC	NC	46	Stephens		-999	-999
6	NC	NC	47	Triumph	2	1	-999
6	NC	NC	48	Trutch		-999	-999
6	NC	NC	49	Tuck		-999	-999
6	NC	NC	50	Union	4	1	-999
5	NC	CCN	N1	Chapple		-999	-999
5	NC	CCN		Helmcken		-999	-999
5	NC	CCN		Laredo		-999	-999
5	NC	CCN		Surf		-999	-999
5	NC	CCN	N2	Aaltanhash		-999	-999
5	NC	CCN		Butedale		-999	-999
5	NC	CCN		Green		-999	-999
5	NC	CCN		Khutze		-999	-999
5	NC	CCN		Klekane		-999	-999
5	NC	CCN		Kynoch		-999	-999
5	NC	CCN		Sheep Passage		-999	-999
5	NC	CCN		Tolmie		-999	-999
5	NC	CCN		Whalen		-999	-999
5	NC	CCN	N3	Price		-999	-999
5	NC	CCN		Roderick		-999	-999
5	NC	CCN		Swindle		-999	-999
5	NC	CCN	N4	Don Peninsula		-999	-999
5	NC	CCN		Ellerslie		-999	-999
5	NC	CCN		Roscoe		-999	-999
5	NC	CCN		Yeo		-999	-999
5	NC	CCN	N5	Braden		-999	-999
5	NC	CCN		King Island		-999	-999
5	NC	CCS		Labouchere		-999	-999
5	NC	CCN		Nascall		-999	-999
5	NC	CCS	N6	Dean		-999	-999
5	NC	CCS		Jump Acrross		-999	-999
5	NC	CCN		Lower Kimsquit		-999	-999
5	NC	CCN		Sutslem/Skowquiltz		-999	-999
5	NC	CCN		Upper Kimsquit		-999	-999
5	NC	CCS	N7	Atnarko		-999	-999
5	NC	CCS		Crag		-999	-999
5	NC	CCS		Nechako		-999	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	GOAT	
				Zipefile name:	Proposed_UWR_Goat_North_Coast	MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser. Proposed_uwr_goat_north_coast	
5	NC	CCS		Sigulat	-999	-999
5	NC	CCS		Young	-999	-999
5	NC	CCN	N8	Outer Coast Islands	-999	-999
5	NC	CCN	N9	Denny	-999	-999
5	NC	CCN		Evans	-999	-999
5	NC	CCN		Hunter	-999	-999
5	NC	CCN	N10	Clyak	-999	-999
5	NC	CCN		Kwatna/Quatlena	-999	-999
5	NC	CCN		Nootum/Koeye	-999	-999
5	NC	CCS		Twin	-999	-999
5	NC	CCS	N11	Clayton	-999	-999
5	NC	CCS		Smitley/Noeick	-999	-999
5	NC	CCS		South Bentinck	-999	-999
5	NC	CCS		Taleomey/Asseek	-999	-999
5	NC	CCS	N12	Ape	-999	-999
5	NC	CCS		Bella Coola	-999	-999
5	NC	CCS		Nusatsum	-999	-999
5	NC	CCS		Saloompt	-999	-999
5	NC	CCS		Talchako/Gyllenspetz	-999	-999
5	NC	CCN	N13	Calvert	-999	-999
5	NC	CCS	N14	Chukwalla/Kibella	-999	-999
5	NC	CCS		Doos/Dallery	-999	-999
5	NC	CCS		Kilippi	-999	-999
1	NC	CCS		Machmell	-999	-999
1	NC	CCS		Neechanz	-999	-999
5	NC	CCN		Owikeno	-999	-999
5	NC	CCN	N15	Sheemahant	-999	-999
5	NC	CCS		Sumquolt	-999	-999
5	NC	CCS		Washwash	-999	-999
5	NC	CCN	N16	Draney	-999	-999
5	NC	CCN		Fish Egg	-999	-999
5	NC	CCN		Johnston (DMC)	-999	-999
5	NC	CCN		Nekite	-999	-999
5	SC	CCS	S1	Draney	-999	-999
5	SC	CCS		Nekite	-999	-999
5	SC	CCS		Smith Sound	-999	-999
5	SC	CCS		Smokehouse	-999	-999
1	SC	CCS	S2	Lower Kingcome	-999	-999
1	SC	CCS		Seymour	-999	-999
1	SC	CCS		Upper Kingcome	-999	-999
1	SC	CCS		Wakeman	-999	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	GOAT	
				Zipefile name:	Proposed_UWR_Goat_North_Coast	MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser. Proposed_uwr_goat_north_coast	
1	SC	CCS	S3	Franklin	-999	-999
1	SC	CCS		Klinkaklini Glacier	-999	-999
1	SC	CCS		Lower Klinaklini	-999	-999
1	SC	CCS		Sim	-999	-999
5	SC	CCS	S4	Middle Klinaklini	-999	-999
5	SC	CCS		Upper Klinaklini	-999	-999
1	SC	CCS	S5	Allison	-999	-999
1	SC	CCS		Belize	-999	-999
1	SC	CCS		Huaskin	-999	-999
1	SC	CCS		Walker	-999	-999
1	SC	CCS	S6	Charles	-999	-999
1	SC	CCS		Miriam	-999	-999
1	SC	CCS		Snowdrift	-999	-999
1	SC	CCS	S7	Broughton	-999	-999
1	SC	CCS		Gilford	-999	-999
1	SC	CCS	S8	Ahnuhati-Kwalate	-999	-999
1	SC	CCS		Ahta	-999	-999
1	SC	CCS		Kakweiken	-999	-999
1	SC	CCS	S9	Knight East	-999	-999
1	SC	CCS		Lull-Sallie	-999	-999
2	SC	CCS	S10	Estero	-999	-999
1	SC	CCS		Fulmore	-999	-999
1	SC	CCS		Gray	-999	-999
1	SC	CCS		Thurlow	-999	-999
1	SC	CCS	S11	Phillips	-999	-999
2	SC	CCS		Stafford	-999	-999

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	MaMu					
				Zipefile name:	Mamu_mm_hab2006		Mamu_mmrt_suit_model		Mamu_proposed_wha,s_aug06	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Mm_hab2006	#Obser.	Mmhabsuit_05	#Obser.	Mamu_proposed_wha_aug06
6	NC	NC	1	Anyox	505	1	505	1		-999
6	NC	NC	2	Aristazabal	79	1	79	1		-999
6	NC	NC	3	Banks	254	1	254	1		-999
6	NC	NC	4	Belle Bay	221	1	221	1	2	1
6	NC	NC	5	Big Falls	452	1	452	1	2	1
6	NC	NC	6	Bishop (DNC)	328	1	328	1		-999
6	NC	NC	7	Brown	332	1	332	1		-999
6	NC	NC	8	Campania	262	1	262	1		-999
6	NC	NC	9	Captain	243	1	243	1	3	1
6	NC	NC	10	Chambers	147	1	147	1		-999
6	NC	NC	11	Crab	202	1	202	1		-999
6	NC	NC	12	Dundas	146	1	146	1		-999
6	NC	NC	13	Gil	260	1	260	1		-999
6	NC	NC	14	Gribbell	252	1	252	1	7	1
6	NC	NC	15	Hartley	484	1	484	1	15	1
6	NC	NC	16	Hawkes South	246	1	246	1	17	1
6	NC	NC	17	Hevenor	473	1	473	1		-999
6	NC	NC	18	Johnston	383	1	383	1		-999
6	NC	NC	19	Kainen	428	1	428	1		-999
6	NC	NC	20	Khtada	154	1	154	1		-999
6	NC	NC	21	Khutzeymateen	928	1	928	1		-999
6	NC	NC	22	Khyex	175	1	175	1		-999
6	NC	NC	23	Kiltuish	379	1	379	1		-999
6	NC	NC	24	Kitkiata	263	1	263	1		-999
6	NC	NC	25	Kitsault	142	1	142	1		-999
6	NC	NC	26	Kshwan	258	1	258	1		-999
6	NC	NC	27	Kumealon	253	1	253	1	8	1
6	NC	NC	28	Kwinamass	137	1	137	1		-999
6	NC	NC	29	Kwinamuck	117	1	117	1		-999
6	NC	NC	30	Marmot	171	1	171	1		-999
6	NC	NC	31	McCauley	155	1	155	1		-999
6	NC	NC	32	Monckton	338	1	338	1		-999
6	NC	NC	33	Observatory East	92		92		4	1
6	NC	NC	34	Observatory West	86	1	86	1		-999
6	NC	NC	35	Olh	48	1	48	1		-999
6	NC	NC	36	Pa'aat	131	1	131	1		-999
6	NC	NC	37	Pearse	223	1	223	1		-999
6	NC	NC	38	Porcher	428	1	428	1		-999
6	NC	NC	39	Quottoon	536	1	536	1	8	1
6	NC	NC	40	Red Bluff	679	1	679	1		-999
6	NC	NC	41	Scotia	199	1	199	1		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	MaMu					
				Zipefile name:	Mamu_mm_hab2006		Mamu_mmrt_suit_model		Mamu_proposed_wha,s_aug06	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Mm_hab2006	#Obser.	Mmhabsuit_05	#Obser.	Mamu_proposed_wha_aug06
6	NC	NC	42	Skeena Islands	32	1	32	1		-999
6	NC	NC	43	Somerville	401	1	401	1	2	1
6	NC	NC	44	Sparkling	151	1	151	1		-999
6	NC	NC	45	Stagoo	810	1	810	1	2	1
6	NC	NC	46	Stephens	161	1	161	1		-999
6	NC	NC	47	Triumph	254	1	254	1		-999
6	NC	NC	48	Trutch	64	1	64	1		-999
6	NC	NC	49	Tuck	515	1	515	1	2	1
6	NC	NC	50	Union	893	1	893	1		-999
5	NC	CCN	N1	Chapple	128	1	128	1		-999
5	NC	CCN		Helmcken	91	1	91	1		-999
5	NC	CCN		Laredo	776	1	776	1		-999
5	NC	CCN		Surf	534	1	534	1		-999
5	NC	CCN	N2	Aaltanhash	264	1	264	1		-999
5	NC	CCN		Butedale	379	1	379	1		-999
5	NC	CCN		Green	711	1	711	1		-999
5	NC	CCN		Khutze	631	1	631	1		-999
5	NC	CCN		Klekane	559	1	559	1		-999
5	NC	CCN		Kynoch	46	1	46	1		-999
5	NC	CCN		Sheep Passage	40	1	40	1		-999
5	NC	CCN		Tolmie	364	1	364	1		-999
5	NC	CCN		Whalen	201	1	201	1		-999
5	NC	CCN	N3	Price	9	1	9	1		-999
5	NC	CCN		Roderick	1371	1	1371	1		-999
5	NC	CCN		Swindle	62	1	62	1		-999
5	NC	CCN	N4	Don Peninsula	207	1	207	1		-999
5	NC	CCN		Ellerslie	83	1	83	1		-999
5	NC	CCN		Roscoe	131	1	131	1		-999
5	NC	CCN		Yeo	275	1	275	1		-999
5	NC	CCN	N5	Braden	194	1	194	1		-999
5	NC	CCN		King Island	120	1	120	1		-999
5	NC	CCS		Labouchere	103	1	103	1		-999
5	NC	CCN		Nascall	113	1	113	1		-999
5	NC	CCS	N6	Dean	136	1	136	1		-999
5	NC	CCS		Jump Acrross	95	1	95	1		-999
5	NC	CCN		Lower Kimsquit	100	1	100	1		-999
5	NC	CCN		Sutslem/Skowquiltz	164	1	164	1		-999
5	NC	CCN		Upper Kimsquit	164	1	164	1		-999
5	NC	CCS	N7	Atnarko		-999		-999		-999
5	NC	CCS		Crag	33	1	33	1		-999
5	NC	CCS		Nechako		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	MaMu					
				Zipefile name:	Mamu_mm_hab2006		Mamu_mmrt_suit_model		Mamu_proposed_wha,s_aug06	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Mm_hab2006	#Obser.	Mmhabsuit_05	#Obser.	Mamu_proposed_wha_aug06
5	NC	CCS		Sigulat		-999		-999		-999
5	NC	CCS		Young		-999		-999		-999
5	NC	CCN	N8	Outer Coast Islands	658	1	658	1		-999
5	NC	CCN	N9	Denny	65	1	65	1		-999
5	NC	CCN		Evans	164	1	164	1		-999
5	NC	CCN		Hunter	358	1	358	1		-999
5	NC	CCN	N10	Clyak	283	1	283	1		-999
5	NC	CCN		Kwatna/Quatlena	208	1	208	1		-999
5	NC	CCN		Nootum/Koeye	1017	1	1017	1		-999
5	NC	CCS		Twin	59	1	59	1		-999
5	NC	CCS	N11	Clayton		-999		-999		-999
5	NC	CCS		Smitley/Noeick		-999		-999		-999
5	NC	CCS		South Bentinck		-999		-999		-999
5	NC	CCS		Taleomey/Asseek		-999		-999		-999
5	NC	CCS	N12	Ape		-999		-999		-999
5	NC	CCS		Bella Coola		-999		-999		-999
5	NC	CCS		Nusatsum		-999		-999		-999
5	NC	CCS		Saloompt		-999		-999		-999
5	NC	CCS		Talchako/Gyllenspetz		-999		-999		-999
5	NC	CCN	N13	Calvert	299	1	299	1		-999
5	NC	CCS	N14	Chukwalla/Kibella	307	1	307	1		-999
5	NC	CCS		Doos/Dallery	179	1	179	1		-999
5	NC	CCS		Kilippi	27	1	27	1		-999
1	NC	CCS		Machmell	61	1	61	1		-999
1	NC	CCS		Neechanz	82	1	82	1		-999
5	NC	CCN		Owikeno	138	1	138	1		-999
5	NC	CCN	N15	Sheemahant	90	1	90	1		-999
5	NC	CCS		Sumquolt	69	1	69	1		-999
5	NC	CCS		Washwash	199	1	199	1		-999
5	NC	CCN	N16	Draney	91	1	91	1		-999
5	NC	CCN		Fish Egg	307	1	307	1		-999
5	NC	CCN		Johnston (DMC)	97	1	97	1		-999
5	NC	CCN		Nekite	71	1	71	1		-999
5	SC	CCS	S1	Draney		-999		-999		-999
5	SC	CCS		Nekite		-999		-999		-999
5	SC	CCS		Smith Sound		-999		-999		-999
5	SC	CCS		Smokehouse		-999		-999		-999
1	SC	CCS	S2	Lower Kingcome		-999		-999		-999
1	SC	CCS		Seymour		-999		-999		-999
1	SC	CCS		Upper Kingcome		-999		-999		-999
1	SC	CCS		Wakeman		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	MaMu		
				Zipefile name:	Mamu_mm_hab2006	Mamu_mmrt_suit_model	Mamu_proposed_wha,s_aug06
1=YES;	-999=NO DATA			Shapefile name:	#Obser. Mm_hab2006	#Obser. Mmhabsuit_05	#Obser. Mamu_proposed_wha_aug06
1	SC	CCS	S3	Franklin	-999	-999	-999
1	SC	CCS		Klinkaklini Glacier	-999	-999	-999
1	SC	CCS		Lower Klinaklini	-999	-999	-999
1	SC	CCS		Sim	-999	-999	-999
5	SC	CCS	S4	Middle Klinaklini	-999	-999	-999
5	SC	CCS		Upper Klinaklini	-999	-999	-999
1	SC	CCS	S5	Allison	-999	-999	-999
1	SC	CCS		Belize	-999	-999	-999
1	SC	CCS		Huaskin	-999	-999	-999
1	SC	CCS		Walker	-999	-999	-999
1	SC	CCS	S6	Charles	-999	-999	-999
1	SC	CCS		Miriam	-999	-999	-999
1	SC	CCS		Snowdrift	-999	-999	-999
1	SC	CCS	S7	Broughton	-999	-999	-999
1	SC	CCS		Gilford	-999	-999	-999
1	SC	CCS	S8	Ahnuhati-Kwalate	-999	-999	-999
1	SC	CCS		Ahta	-999	-999	-999
1	SC	CCS		Kakweiken	-999	-999	-999
1	SC	CCS	S9	Knight East	-999	-999	-999
1	SC	CCS		Lull-Sallie	-999	-999	-999
2	SC	CCS	S10	Estero	-999	-999	-999
1	SC	CCS		Fulmore	-999	-999	-999
1	SC	CCS		Gray	-999	-999	-999
1	SC	CCS		Thurlow	-999	-999	-999
1	SC	CCS	S11	Stafford	-999	-999	-999
2	SC	CCS		Phillips	-999	-999	-999

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	MaMu					
				Zipefile name:	Mamu_wha_new		Mamu_midcoast_binom		Mamu_midcoast_hobbs	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Mamu_wha_new	#Obser.	Mamu_midcoast_binom	#Obser.	Mamu_midcoast_hobbs
6	NC	NC	1	Anyox		-999	466	-999	6	1
6	NC	NC	2	Aristazabal		-999		-999		-999
6	NC	NC	3	Banks	2	1	63	1	160	1
6	NC	NC	4	Belle Bay	1	1	97	1	127	1
6	NC	NC	5	Big Falls		-999	244	1		-999
6	NC	NC	6	Bishop (DNC)		-999	116	1		-999
6	NC	NC	7	Brown		-999	167	1		-999
6	NC	NC	8	Campania		-999	239	1		-999
6	NC	NC	9	Captain		-999	107	1		-999
6	NC	NC	10	Chambers		-999		-999		-999
6	NC	NC	11	Crab		-999		-999	42	1
6	NC	NC	12	Dundas		-999	95	1		-999
6	NC	NC	13	Gil		-999	108	1	165	1
6	NC	NC	14	Gribbell	1	1	72	1	125	1
6	NC	NC	15	Hartley		-999	141	1	2	1
6	NC	NC	16	Hawkes South	1	1	126	1	163	1
6	NC	NC	17	Hevenor		-999	125	1	453	1
6	NC	NC	18	Johnston		-999	142	1		-999
6	NC	NC	19	Kainen		-999	171	1		-999
6	NC	NC	20	Khtada		-999		-999		-999
6	NC	NC	21	Khutzeymateen		-999	2	1		-999
6	NC	NC	22	Khyex		-999		-999		-999
6	NC	NC	23	Kiltuish		-999	166	1		-999
6	NC	NC	24	Kitkiata		-999		-999		-999
6	NC	NC	25	Kitsault		-999		-999	17	1
6	NC	NC	26	Kshwan		-999	165	1	1	1
6	NC	NC	27	Kumealon		-999		-999		-999
6	NC	NC	28	Kwinamass		-999		-999		-999
6	NC	NC	29	Kwinamuck		-999	84	1		-999
6	NC	NC	30	Marmot		-999	64	1		-999
6	NC	NC	31	McCauley		-999		-999	104	1
6	NC	NC	32	Monckton		-999	148	1	437	1
6	NC	NC	33	Observatory East		-999	66	1	98	1
6	NC	NC	34	Observatory West		-999	68	1		-999
6	NC	NC	35	Olh		-999	19	1	22	1
6	NC	NC	36	Pa'aat		-999	26	1		-999
6	NC	NC	37	Pearse		-999		-999	36	1
6	NC	NC	38	Porcher		-999	237	1		-999
6	NC	NC	39	Quottoon		-999	267	1		-999
6	NC	NC	40	Red Bluff		-999		-999		-999
6	NC	NC	41	Scotia		-999	46	1		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	MaMu					
				Zipefile name:	Mamu_wha_new		Mamu_midcoast_binom		Mamu_midcoast_hobbs	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Mamu_wha_new	#Obser.	Mamu_midcoast_binom	#Obser.	Mamu_midcoast_hobbs
6	NC	NC	42	Skeena Islands		-999		-999		-999
6	NC	NC	43	Somerville		-999	134	1	278	1
6	NC	NC	44	Sparkling		-999		-999		-999
6	NC	NC	45	Stagoo		-999	641	1		-999
6	NC	NC	46	Stephens		-999		-999		-999
6	NC	NC	47	Triumph		-999	112	1	176	1
6	NC	NC	48	Trutch		-999	22	1	59	1
6	NC	NC	49	Tuck		-999		-999		-999
6	NC	NC	50	Union		-999	613	1		-999
5	NC	CCN	N1	Chapple		-999		-999	1	1
5	NC	CCN		Helmcken		-999		-999		-999
5	NC	CCN		Laredo		-999		-999		-999
5	NC	CCN		Surf		-999	321	1		-999
5	NC	CCN	N2	Aaltanhash		-999	55	1	80	1
5	NC	CCN		Butedale		-999	3	1		-999
5	NC	CCN		Green		-999		-999		-999
5	NC	CCN		Khutze		-999		-999		-999
5	NC	CCN		Klekane		-999		-999		-999
5	NC	CCN		Kynoch		-999	45	1	95	1
5	NC	CCN		Sheep Passage		-999	29	1	135	1
5	NC	CCN		Tolmie		-999		-999		-999
5	NC	CCN		Whalen		-999		-999		-999
5	NC	CCN	N3	Price		-999	9	1	10	1
5	NC	CCN		Roderick		-999	1071	1	7	1
5	NC	CCN		Swindle	3	1	51	1	58	1
5	NC	CCN	N4	Don Peninsula		-999	134	1	84	1
5	NC	CCN		Ellerslie		-999	54	1	202	1
5	NC	CCN		Roscoe		-999	99	1	302	1
5	NC	CCN		Yeo	3	1	186	1	59	1
5	NC	CCN	N5	Braden		-999	177	1	334	1
5	NC	CCN		King Island		-999	106	1	294	1
5	NC	CCS		Labouchere	1	1	88	1	229	1
5	NC	CCN		Nascall		-999	104	1	153	1
5	NC	CCS	N6	Dean	1	1	134	1	213	1
5	NC	CCS		Jump Acrross		-999	87	1	161	1
5	NC	CCN		Lower Kimsquit		-999	83	1	156	1
5	NC	CCN		Sutslem/Skowquiltz		-999	152	1	171	1
5	NC	CCN		Upper Kimsquit		-999	143	1	260	1
5	NC	CCS	N7	Atnarko		-999		-999		-999
5	NC	CCS		Crag		-999	26	1	51	1
5	NC	CCS		Nechako		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	MaMu					
				Zipefile name:	Mamu_wha_new		Mamu_midcoast_binom		Mamu_midcoast_hobbs	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Mamu_wha_new	#Obser.	Mamu_midcoast_binom	#Obser.	Mamu_midcoast_hobbs
5	NC	CCS		Sigulat		-999		-999	15	1
5	NC	CCS		Young		-999		-999		-999
5	NC	CCN	N8	Outer Coast Islands		-999	658	1	15	1
5	NC	CCN	N9	Denny		-999	49	1	64	1
5	NC	CCN		Evans		-999	159	1	174	1
5	NC	CCN		Hunter		-999	358	1	32	1
5	NC	CCN	N10	Clyak		-999	259	1	587	1
5	NC	CCN		Kwatna/Quatlena	5	1	183	1	382	1
5	NC	CCN		Nootum/Koeye		-999	466	1	200	1
5	NC	CCS		Twin		-999	57	1	126	1
5	NC	CCS	N11	Clayton		-999		-999		-999
5	NC	CCS		Smitley/Noeick		-999		-999		-999
5	NC	CCS		South Bentinck		-999		-999		-999
5	NC	CCS		Taleomey/Asseek		-999		-999		-999
5	NC	CCS	N12	Ape		-999		-999		-999
5	NC	CCS		Bella Coola		-999		-999		-999
5	NC	CCS		Nusatsum		-999		-999		-999
5	NC	CCS		Saloompt		-999		-999		-999
5	NC	CCS		Talchako/Gyllenspetz		-999		-999		-999
5	NC	CCN	N13	Calvert		-999	291	1	123	1
5	NC	CCS	N14	Chukwalla/Kibella		-999	278	1	732	1
5	NC	CCS		Doos/Dallery	2	1	156	1	574	1
5	NC	CCS		Kilippi		-999	25	1	180	1
1	NC	CCS		Machmell		-999	53	1	231	1
1	NC	CCS		Neechanz		-999	73	1	323	1
5	NC	CCN		Owikeno		-999	129	1	293	1
5	NC	CCN	N15	Sheemahant		-999	77	1	209	1
5	NC	CCS		Sumquolt		-999	65	1	114	1
5	NC	CCS		Washwash		-999	195	1	306	1
5	NC	CCN	N16	Draney		-999	81	1	148	1
5	NC	CCN		Fish Egg	2	1	263	1	339	1
5	NC	CCN		Johnston (DMC)	1	1	77	1	284	1
5	NC	CCN		Nekite		-999	46	1	281	1
5	SC	CCS	S1	Draney		-999		-999		-999
5	SC	CCS		Nekite		-999		-999		-999
5	SC	CCS		Smith Sound		-999		-999		-999
5	SC	CCS		Smokehouse		-999		-999		-999
1	SC	CCS	S2	Lower Kingcome		-999		-999		-999
1	SC	CCS		Seymour		-999		-999		-999
1	SC	CCS		Upper Kingcome		-999		-999		-999
1	SC	CCS		Wakeman		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	MaMu		
				Zipefile name:	Mamu_wha_new	Mamu_midcoast_binom	Mamu_midcoast_hobbs
1=YES;	-999=NO DATA			Shapefile name:	#Obser. Mamu_wha_new	#Obser. Mamu_midcoast_binom	#Obser. Mamu_midcoast_hobbs
1	SC	CCS	S3	Franklin	-999	-999	-999
1	SC	CCS		Klinkaklini Glacier	-999	-999	-999
1	SC	CCS		Lower Klinaklini	-999	-999	-999
1	SC	CCS		Sim	-999	-999	-999
5	SC	CCS	S4	Middle Klinaklini	-999	-999	-999
5	SC	CCS		Upper Klinaklini	-999	-999	-999
1	SC	CCS	S5	Allison	-999	-999	-999
1	SC	CCS		Belize	-999	-999	-999
1	SC	CCS		Huaskin	-999	-999	-999
1	SC	CCS		Walker	-999	-999	-999
1	SC	CCS	S6	Charles	-999	-999	-999
1	SC	CCS		Miriam	-999	-999	-999
1	SC	CCS		Snowdrift	-999	-999	-999
1	SC	CCS	S7	Broughton	-999	-999	-999
1	SC	CCS		Gilford	-999	-999	-999
1	SC	CCS	S8	Ahnuhati-Kwalate	-999	-999	-999
1	SC	CCS		Ahta	-999	-999	-999
1	SC	CCS		Kakweiken	-999	-999	-999
1	SC	CCS	S9	Knight East	-999	-999	-999
1	SC	CCS		Lull-Sallie	-999	-999	-999
2	SC	CCS	S10	Estero	-999	-999	-999
1	SC	CCS		Fulmore	-999	-999	-999
1	SC	CCS		Gray	-999	-999	-999
1	SC	CCS		Thurlow	-999	-999	-999
1	SC	CCS	S11	Stafford	-999	-999	-999
2	SC	CCS		Phillips	-999	-999	-999

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	MaMu		
				Zipefile name:	Mamu_nc		MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Mamu_nc_04_v2	
6	NC	NC	1	Anyox	2	1	-999
6	NC	NC	2	Aristazabal	146	1	-999
6	NC	NC	3	Banks	231	1	-999
6	NC	NC	4	Belle Bay	197	1	-999
6	NC	NC	5	Big Falls	245	1	-999
6	NC	NC	6	Bishop (DNC)	234	1	-999
6	NC	NC	7	Brown	156	1	-999
6	NC	NC	8	Campania	22	1	-999
6	NC	NC	9	Captain	147	1	-999
6	NC	NC	10	Chambers	294	1	-999
6	NC	NC	11	Crab	2	1	-999
6	NC	NC	12	Dundas	85	1	-999
6	NC	NC	13	Gil	196	1	-999
6	NC	NC	14	Gribbell	227	1	-999
6	NC	NC	15	Hartley	466	1	-999
6	NC	NC	16	Hawkes South	207	1	-999
6	NC	NC	17	Hevenor	341	1	-999
6	NC	NC	18	Johnston	289	1	-999
6	NC	NC	19	Kainen	342	1	-999
6	NC	NC	20	Khtada	226	1	-999
6	NC	NC	21	Khutzeymateen	353	1	-999
6	NC	NC	22	Khyex	272	1	-999
6	NC	NC	23	Kiltuish	6	1	-999
6	NC	NC	24	Kitkiata	316	1	-999
6	NC	NC	25	Kitsault	167	1	-999
6	NC	NC	26	Kshwan	63	1	-999
6	NC	NC	27	Kumealon	337	1	-999
6	NC	NC	28	Kwinamass	284	1	-999
6	NC	NC	29	Kwinamuck		-999	-999
6	NC	NC	30	Marmot	154	1	-999
6	NC	NC	31	McCauley	154	1	-999
6	NC	NC	32	Monckton	201	1	-999
6	NC	NC	33	Observatory East	46	1	-999
6	NC	NC	34	Observatory West	36	1	-999
6	NC	NC	35	Olh	48	1	-999
6	NC	NC	36	Pa'aat	120	1	-999
6	NC	NC	37	Pearse	281	1	-999
6	NC	NC	38	Porcher	242	1	-999
6	NC	NC	39	Quottoon	311	1	-999
6	NC	NC	40	Red Bluff	296	1	-999
6	NC	NC	41	Scotia	216	1	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	MaMu		
				Zipefile name:	Mamu_nc		MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Mamu_nc_04_v2	
6	NC	NC	42	Skeena Islands	26	1	-999
6	NC	NC	43	Somerville	346	1	-999
6	NC	NC	44	Sparkling	227	1	-999
6	NC	NC	45	Stagoo	149	1	-999
6	NC	NC	46	Stephens	53	1	-999
6	NC	NC	47	Triumph	161	1	-999
6	NC	NC	48	Trutch	49	1	-999
6	NC	NC	49	Tuck	414	1	-999
6	NC	NC	50	Union	216	1	-999
5	NC	CCN	N1	Chapple	169	1	-999
5	NC	CCN		Helmcken	118	1	-999
5	NC	CCN		Laredo	144	1	-999
5	NC	CCN		Surf	212	1	-999
5	NC	CCN	N2	Aaltanhash		-999	-999
5	NC	CCN		Butedale		-999	-999
5	NC	CCN		Green	100	1	-999
5	NC	CCN		Khutze	3	1	-999
5	NC	CCN		Klekane	12	1	-999
5	NC	CCN		Kynoch		-999	1
5	NC	CCN		Sheep Passage	1	1	1
5	NC	CCN		Tolmie	30	1	-999
5	NC	CCN		Whalen	257	1	-999
5	NC	CCN	N3	Price		-999	1
5	NC	CCN		Roderick		-999	1
5	NC	CCN		Swindle	1	1	1
5	NC	CCN	N4	Don Peninsula		-999	1
5	NC	CCN		Ellerslie		-999	1
5	NC	CCN		Roscoe		-999	1
5	NC	CCN		Yeo		-999	1
5	NC	CCN	N5	Braden		-999	1
5	NC	CCN		King Island		-999	1
5	NC	CCS		Labouchere		-999	1
5	NC	CCN		Nascall		-999	1
5	NC	CCS	N6	Dean		-999	1
5	NC	CCS		Jump Acrross		-999	1
5	NC	CCN		Lower Kimsquit		-999	1
5	NC	CCN		Sutslem/Skowquiltz		-999	1
5	NC	CCN		Upper Kimsquit		-999	1
5	NC	CCS	N7	Atnarko		-999	-999
5	NC	CCS		Crag		-999	1
5	NC	CCS		Nechako		-999	-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	MaMu	
				Zipefile name:	Mamu_nc	MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser. Mamu_nc_04_v2	
5	NC	CCS		Sigulat	-999	-999
5	NC	CCS		Young	-999	-999
5	NC	CCN	N8	Outer Coast Islands	-999	1
5	NC	CCN	N9	Denny	-999	-999
5	NC	CCN		Evans	-999	-999
5	NC	CCN		Hunter	-999	1
5	NC	CCN	N10	Clyak	-999	1
5	NC	CCN		Kwatna/Quatlena	-999	1
5	NC	CCN		Nootum/Koeye	-999	1
5	NC	CCS		Twin	-999	1
5	NC	CCS	N11	Clayton	-999	1
5	NC	CCS		Smitley/Noeick	-999	-999
5	NC	CCS		South Bentinck	-999	1
5	NC	CCS		Taleomey/Asseek	-999	-999
5	NC	CCS	N12	Ape	-999	-999
5	NC	CCS		Bella Coola	-999	1
5	NC	CCS		Nusatsum	-999	1
5	NC	CCS		Saloompt	-999	1
5	NC	CCS		Talchako/Gyllenspetz	-999	1
5	NC	CCN	N13	Calvert	-999	1
5	NC	CCS	N14	Chukwalla/Kibella	-999	1
5	NC	CCS		Doos/Dallery	-999	1
5	NC	CCS		Kilippi	-999	1
1	NC	CCS		Machmell	-999	1
1	NC	CCS		Neechanz	-999	1
5	NC	CCN		Owikeno	-999	1
5	NC	CCN	N15	Sheemahant	-999	1
5	NC	CCS		Sumquolt	-999	1
5	NC	CCS		Washwash	-999	-999
5	NC	CCN	N16	Draney	-999	-999
5	NC	CCN		Fish Egg	-999	-999
5	NC	CCN		Johnston (DMC)	-999	-999
5	NC	CCN		Nekite	-999	-999
5	SC	CCS	S1	Draney	-999	-999
5	SC	CCS		Nekite	-999	1
5	SC	CCS		Smith Sound	-999	-999
5	SC	CCS		Smokehouse	-999	1
1	SC	CCS	S2	Lower Kingcome	-999	1
1	SC	CCS		Seymour	-999	1
1	SC	CCS		Upper Kingcome	-999	1
1	SC	CCS		Wakeman	-999	1

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	MaMu	
				Zipefile name:	Mamu_nc	MoE-Focal Species Inventory
1=YES;	-999=NO DATA			Shapefile name:	#Obser. Mamu_nc_04_v2	
1	SC	CCS	S3	Franklin	-999	1
1	SC	CCS		Klinkaklini Glacier	-999	1
1	SC	CCS		Lower Klinaklini	-999	1
1	SC	CCS		Sim	-999	1
5	SC	CCS	S4	Middle Klinaklini	-999	1
5	SC	CCS		Upper Klinaklini	-999	-999
1	SC	CCS	S5	Allison	-999	1
1	SC	CCS		Belize	-999	1
1	SC	CCS		Huaskin	-999	1
1	SC	CCS		Walker	-999	-999
1	SC	CCS	S6	Charles	-999	1
1	SC	CCS		Miriam	-999	1
1	SC	CCS		Snowdrift	-999	1
1	SC	CCS	S7	Broughton	-999	1
1	SC	CCS		Gilford	-999	1
1	SC	CCS	S8	Ahnuhati-Kwalate	-999	1
1	SC	CCS		Ahta	-999	1
1	SC	CCS		Kakweiken	-999	1
1	SC	CCS	S9	Knight East	-999	1
1	SC	CCS		Lull-Sallie	-999	1
2	SC	CCS	S10	Estero	-999	1
1	SC	CCS		Fulmore	-999	1
1	SC	CCS		Gray	-999	1
1	SC	CCS		Thurlow	-999	0
1	SC	CCS	S11	Stafford	-999	1
2	SC	CCS		Phillips	-999	1

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MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	Moose					
				Zipefile name:	Moose_amend_areas_wrs		Moose_combined		Moose_WRS	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Moose_amend_areas_wrs	#Obser.	Moose_combined	#Obser.	Moose_wrs
6	NC	NC	1	Anyox		-999		-999		-999
6	NC	NC	2	Aristazabal		-999		-999		-999
6	NC	NC	3	Banks		-999		-999		-999
6	NC	NC	4	Belle Bay	2	1	11	1	11	1
6	NC	NC	5	Big Falls		-999		-999		-999
6	NC	NC	6	Bishop (DNC)		-999		-999		-999
6	NC	NC	7	Brown		-999		-999		-999
6	NC	NC	8	Campania		-999		-999		-999
6	NC	NC	9	Captain		-999		-999		-999
6	NC	NC	10	Chambers		-999		-999		-999
6	NC	NC	11	Crab		-999		-999		-999
6	NC	NC	12	Dundas		-999		-999		-999
6	NC	NC	13	Gil		-999		-999		-999
6	NC	NC	14	Gribbell		-999		-999		-999
6	NC	NC	15	Hartley		-999		-999		-999
6	NC	NC	16	Hawkes South		-999	10	1	15	1
6	NC	NC	17	Hevenor		-999		-999		-999
6	NC	NC	18	Johnston		-999		-999		-999
6	NC	NC	19	Kainen		-999		-999		-999
6	NC	NC	20	Khtada		-999		-999		-999
6	NC	NC	21	Khutzeymateen		-999		-999		-999
6	NC	NC	22	Khyex		-999		-999		-999
6	NC	NC	23	Kiltuish		-999		-999		-999
6	NC	NC	24	Kitkiata		-999		-999		-999
6	NC	NC	25	Kitsault	1	1	1	1	1	1
6	NC	NC	26	Kshwan		-999		-999		-999
6	NC	NC	27	Kumealon		-999		-999		-999
6	NC	NC	28	Kwinamass		-999		-999		-999
6	NC	NC	29	Kwinamuck		-999		-999		-999
6	NC	NC	30	Marmot		-999		-999		-999
6	NC	NC	31	McCauley		-999		-999		-999
6	NC	NC	32	Monckton		-999		-999		-999
6	NC	NC	33	Observatory East		-999		-999		-999
6	NC	NC	34	Observatory West		-999		-999		-999
6	NC	NC	35	Olh	1	1		-999		-999
6	NC	NC	36	Pa'aat		-999		-999		-999
6	NC	NC	37	Pearse		-999	1	1	1	1
6	NC	NC	38	Porcher		-999		-999		-999
6	NC	NC	39	Quottoon		-999		-999		-999
6	NC	NC	40	Red Bluff		-999		-999		-999
6	NC	NC	41	Scotia		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	Moose					
				Zipefile name:	Moose_amend_areas_wrs		Moose_combined		Moose_WRS	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Moose_amend_areas_wrs	#Obser.	Moose_combined	#Obser.	Moose_wrs
6	NC	NC	42	Skeena Islands		-999		-999		-999
6	NC	NC	43	Somerville		-999		-999		-999
6	NC	NC	44	Sparkling		-999		-999		-999
6	NC	NC	45	Stagoo		-999		-999		-999
6	NC	NC	46	Stephens		-999		-999		-999
6	NC	NC	47	Triumph		-999		-999		-999
6	NC	NC	48	Trutch		-999		-999		-999
6	NC	NC	49	Tuck		-999		-999		-999
6	NC	NC	50	Union		-999		-999		-999
5	NC	CCN	N1	Chapple		-999		-999		-999
5	NC	CCN		Helmcken		-999		-999		-999
5	NC	CCN		Laredo		-999		-999		-999
5	NC	CCN		Surf		-999		-999		-999
5	NC	CCN	N2	Aaltanhash		-999	4	1	2	1
5	NC	CCN		Butedale		-999		-999		-999
5	NC	CCN		Green		-999		-999		-999
5	NC	CCN		Khutze		-999		-999		-999
5	NC	CCN		Klekane		-999		-999		-999
5	NC	CCN		Kynoch		-999		-999		-999
5	NC	CCN		Sheep Passage		-999		-999		-999
5	NC	CCN		Tolmie		-999		-999		-999
5	NC	CCN		Whalen		-999		-999		-999
5	NC	CCN	N3	Price		-999		-999		-999
5	NC	CCN		Roderick		-999		-999		-999
5	NC	CCN		Swindle		-999		-999		-999
5	NC	CCN	N4	Don Peninsula		-999		-999		-999
5	NC	CCN		Ellerslie		-999		-999		-999
5	NC	CCN		Roscoe		-999		-999		-999
5	NC	CCN		Yeo		-999		-999		-999
5	NC	CCN	N5	Braden		-999		-999		-999
5	NC	CCN		King Island		-999		-999		-999
5	NC	CCS		Labouchere		-999		-999		-999
5	NC	CCN		Nascall		-999		-999		-999
5	NC	CCS	N6	Dean		-999	1	1	4	1
5	NC	CCS		Jump Acrross		-999		-999		-999
5	NC	CCN		Lower Kimsquit	6	1	5	1	9	1
5	NC	CCN		Sutslem/Skowquiltz		-999		-999		-999
5	NC	CCN		Upper Kimsquit		-999	9	1	9	1
5	NC	CCS	N7	Atnarko		-999		-999		-999
5	NC	CCS		Crag		-999	3	1	3	1
5	NC	CCS		Nechako		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	Moose					
				Zipefile name:	Moose_amend_areas_wrs		Moose_combined		Moose_WRS	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Moose_amend_areas_wrs	#Obser.	Moose_combined	#Obser.	Moose_wrs
5	NC	CCS		Sigulat		-999		-999		-999
5	NC	CCS		Young		-999		-999		-999
5	NC	CCN	N8	Outer Coast Islands		-999		-999		-999
5	NC	CCN	N9	Denny		-999		-999		-999
5	NC	CCN		Evans		-999		-999		-999
5	NC	CCN		Hunter		-999		-999		-999
5	NC	CCN	N10	Clyak		-999		-999		-999
5	NC	CCN		Kwatna/Quatlena		-999		-999		-999
5	NC	CCN		Nootum/Koeye		-999		-999		-999
5	NC	CCS		Twin		-999		-999		-999
5	NC	CCS	N11	Clayton		-999		-999		-999
5	NC	CCS		Smitley/Noeick		-999		-999		-999
5	NC	CCS		South Bentinck		-999		-999		-999
5	NC	CCS		Taleomey/Asseek		-999		-999		-999
5	NC	CCS	N12	Ape		-999		-999		-999
5	NC	CCS		Bella Coola		-999		-999		-999
5	NC	CCS		Nusatsum		-999		-999		-999
5	NC	CCS		Saloompt		-999		-999		-999
5	NC	CCS		Talchako/Gyllenspetz		-999		-999		-999
5	NC	CCN	N13	Calvert		-999		-999		-999
5	NC	CCS	N14	Chukwalla/Kibella		-999		-999		-999
5	NC	CCS		Doos/Dallery		-999		-999		-999
5	NC	CCS		Kilippi		-999		-999		-999
1	NC	CCS		Machmell		-999		-999		-999
1	NC	CCS		Neechanz		-999		-999		-999
5	NC	CCN		Owikeno		-999		-999		-999
5	NC	CCN	N15	Sheemahant		-999		-999		-999
5	NC	CCS		Sumquolt		-999		-999		-999
5	NC	CCS		Washwash		-999		-999		-999
5	NC	CCN	N16	Draney		-999		-999		-999
5	NC	CCN		Fish Egg		-999		-999		-999
5	NC	CCN		Johnston (DMC)		-999		-999		-999
5	NC	CCN		Nekite		-999		-999		-999
5	SC	CCS	S1	Draney		-999		-999		-999
5	SC	CCS		Nekite		-999		-999		-999
5	SC	CCS		Smith Sound		-999		-999		-999
5	SC	CCS		Smokehouse		-999		-999		-999
1	SC	CCS	S2	Lower Kingcome		-999		-999		-999
1	SC	CCS		Seymour		-999		-999		-999
1	SC	CCS		Upper Kingcome		-999		-999		-999
1	SC	CCS		Wakeman		-999		-999		-999

MoE-Region	Minist_Ord	CCLRMP Area	Planning Unit	Landscape Unit	Moose					
				Zipefile name:	Moose_amend_areas_wrs		Moose_combined		Moose_WRS	
1=YES;	-999=NO DATA			Shapefile name:	#Obser.	Moose_amend_areas_wrs	#Obser.	Moose_combined	#Obser.	Moose_wrs
1	SC	CCS	S3	Franklin		-999		-999		-999
1	SC	CCS		Klinkaklini Glacier		-999		-999		-999
1	SC	CCS		Lower Klinaklini		-999		-999		-999
1	SC	CCS		Sim		-999		-999		-999
5	SC	CCS	S4	Middle Klinaklini		-999		-999		-999
5	SC	CCS		Upper Klinaklini		-999		-999		-999
1	SC	CCS	S5	Allison		-999		-999		-999
1	SC	CCS		Belize		-999		-999		-999
1	SC	CCS		Huaskin		-999		-999		-999
1	SC	CCS		Walker		-999		-999		-999
1	SC	CCS	S6	Charles		-999		-999		-999
1	SC	CCS		Miriam		-999		-999		-999
1	SC	CCS		Snowdrift		-999		-999		-999
1	SC	CCS	S7	Broughton		-999		-999		-999
1	SC	CCS		Gilford		-999		-999		-999
1	SC	CCS	S8	Ahnuhati-Kwalate		-999		-999		-999
1	SC	CCS		Ahta		-999		-999		-999
1	SC	CCS		Kakweiken		-999		-999		-999
1	SC	CCS	S9	Knight East		-999		-999		-999
1	SC	CCS		Lull-Sallie		-999		-999		-999
2	SC	CCS	S10	Estero		-999		-999		-999
1	SC	CCS		Fulmore		-999		-999		-999
1	SC	CCS		Gray		-999		-999		-999
1	SC	CCS		Thurlow		-999		-999		-999
1	SC	CCS	S11	Stafford		-999		-999		-999
2	SC	CCS		Phillips		-999		-999		-999

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Planning Unit	Landscape Unit	Moose				
	Zipefile name:	Moose_nc		Mamu_nc		MoE-Focal Species Inventory
	Shapefile name:	#Obser.	Lmsb_nc.e00	#Obser.	Lmwr_nc.e00	
1	Anyox	1	1	1	1	-999
2	Aristazabal		-999		-999	-999
3	Banks		-999		-999	-999
4	Belle Bay	1	1		-999	-999
5	Big Falls		-999	2	1	-999
6	Bishop (DNC)		-999	2	1	-999
7	Brown		-999	1	1	-999
8	Campania		-999		-999	-999
9	Captain		-999		-999	-999
10	Chambers		-999	1	1	-999
11	Crab		-999		-999	-999
12	Dundas		-999		-999	-999
13	Gil		-999		-999	-999
14	Gribbell	1	1		-999	-999
15	Hartley		-999		-999	-999
16	Hawkes South		-999		-999	-999
17	Hevenor		-999		-999	-999
18	Johnston	1	1	4	1	-999
19	Kainen		-999	1	1	-999
20	Khtada		-999	1	1	-999
21	Khutzeymateen		-999	2	1	-999
22	Khyex	1	1	1	1	-999
23	Kiltuish		-999	1	1	-999
24	Kitkiata		-999	2	1	-999
25	Kitsault	1	1	2	1	-999
26	Kshwan		-999	1	1	-999
27	Kumealon		-999		-999	-999
28	Kwinamass	1	1	1	1	-999
29	Kwinamuck		-999		-999	-999
30	Marmot		-999		-999	-999
31	McCauley		-999		-999	-999
32	Monckton		-999		-999	-999
33	Observatory East		-999		-999	-999
34	Observatory West		-999		-999	-999
35	Olh		-999		-999	-999
36	Pa'aat		-999		-999	-999
37	Pearse		-999		-999	-999
38	Porcher		-999		-999	-999
39	Quottoon	1	1	2	1	-999
40	Red Bluff		-999		-999	-999
41	Scotia		-999	1	1	-999

Planning Unit	Landscape Unit	Moose				
	Zipefile name:	Moose_nc		Mamu_nc		MoE-Focal Species Inventory
	Shapefile name:	#Obser.	Lmsb_nc.e00	#Obser.	Lmwr_nc.e00	
42	Skeena Islands		-999	1	1	-999
43	Somerville		-999	1	1	-999
44	Sparkling		-999	1	1	-999
45	Stagoo		-999	1	1	-999
46	Stephens		-999		-999	-999
47	Triumph	1	1	2	1	-999
48	Trutch		-999		-999	-999
49	Tuck		-999		-999	-999
50	Union		-999	1	1	-999
N1	Chapple		-999		-999	-999
	Helmcken		-999		-999	-999
	Laredo		-999		-999	-999
	Surf		-999		-999	-999
N2	Aaltanhash		-999		-999	-999
	Butedale		-999		-999	-999
	Green		-999		-999	-999
	Khutze		-999		-999	-999
	Klekane		-999		-999	-999
	Kynoch		-999		-999	-999
	Sheep Passage		-999		-999	-999
	Tolmie		-999		-999	-999
	Whalen		-999		-999	-999
N3	Price		-999		-999	-999
	Roderick		-999		-999	-999
	Swindle		-999		-999	-999
N4	Don Peninsula		-999		-999	-999
	Ellerslie		-999		-999	-999
	Roscoe		-999		-999	-999
	Yeo		-999		-999	-999
N5	Braden		-999		-999	-999
	King Island		-999		-999	-999
	Labouchere		-999		-999	-999
	Nascall		-999		-999	-999
N6	Dean		-999		-999	-999
	Jump Acrross		-999		-999	-999
	Lower Kimsquit		-999		-999	-999
	Sutslem/Skowquiltz		-999		-999	-999
	Upper Kimsquit		-999		-999	-999
N7	Atnarko		-999		-999	-999
	Crag		-999		-999	-999
	Nechako		-999		-999	-999

Planning Unit	Landscape Unit	Moose		
	Zipefile name:	Moose_nc	Mamu_nc	MoE-Focal Species Inventory
	Shapefile name:	#Obser. Lmsb_nc.e00	#Obser. Lmwr_nc.e00	
	Sigulat	-999	-999	-999
	Young	-999	-999	-999
N8	Outer Coast Islands	-999	-999	-999
N9	Denny	-999	-999	-999
	Evans	-999	-999	-999
	Hunter	-999	-999	-999
N10	Clyak	-999	-999	-999
	Kwatna/Quatlena	-999	-999	-999
	Nootum/Koeye	-999	-999	-999
	Twin	-999	-999	-999
N11	Clayton	-999	-999	-999
	Smitley/Noeick	-999	-999	-999
	South Bentinck	-999	-999	-999
	Taleomey/Asseek	-999	-999	-999
N12	Ape	-999	-999	-999
	Bella Coola	-999	-999	-999
	Nusatsum	-999	-999	-999
	Saloompt	-999	-999	-999
	Talchako/Gyllenspetz	-999	-999	-999
N13	Calvert	-999	-999	-999
N14	Chukwalla/Kibella	-999	-999	-999
	Doos/Dallery	-999	-999	-999
	Kilippi	-999	-999	-999
	Machmell	-999	-999	-999
	Neechanz	-999	-999	-999
	Owikeno	-999	-999	-999
N15	Sheemahant	-999	-999	-999
	Sumquolt	-999	-999	-999
	Washwash	-999	-999	-999
N16	Draney	-999	-999	-999
	Fish Egg	-999	-999	-999
	Johnston (DMC)	-999	-999	-999
	Nekite	-999	-999	-999
S1	Draney	-999	-999	-999
	Nekite	-999	-999	-999
	Smith Sound	-999	-999	-999
	Smokehouse	-999	-999	-999
S2	Lower Kingcome	-999	-999	-999
	Seymour	-999	-999	-999
	Upper Kingcome	-999	-999	-999
	Wakeman	-999	-999	-999

Planning Unit	Landscape Unit	Moose		
	Zipefile name:	Moose_nc	Mamu_nc	MoE-Focal Species Inventory
	Shapefile name:	#Obser. Lmsb_nc.e00	#Obser. Lmwr_nc.e00	
S3	Franklin	-999	-999	-999
	Klinkaklini Glacier	-999	-999	-999
	Lower Klinaklini	-999	-999	-999
	Sim	-999	-999	-999
S4	Middle Klinaklini	-999	-999	-999
	Upper Klinaklini	-999	-999	-999
S5	Allison	-999	-999	-999
	Belize	-999	-999	-999
	Huaskin	-999	-999	-999
	Walker	-999	-999	-999
S6	Charles	-999	-999	-999
	Miriam	-999	-999	-999
	Snowdrift	-999	-999	-999
S7	Broughton	-999	-999	-999
	Gilford	-999	-999	-999
S8	Ahnuhati-Kwalate	-999	-999	-999
	Ahta	-999	-999	-999
	Kakweiken	-999	-999	-999
S9	Knight East	-999	-999	-999
	Lull-Sallie	-999	-999	-999
S10	Estero	-999	-999	-999
	Fulmore	-999	-999	-999
	Gray	-999	-999	-999
	Thurlow	-999	-999	-999
S11	Stafford	-999	-999	-999
	Phillips	-999	-999	-999

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Appendix B

BIBLIOGRAPHIC REFERENCE

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Appendix C

THEMATIC MAPS REPORTS SUMMARY AND ATTRIBUTES TABLES

Report Title

North-coast forest district black-tailed deer winter range inventory

Report Author(s)

Robertson Environmental Services Ltd.

Report Year

July 2005

Geographic Coverage

BC North Coast

Report File Name

Ncdeer-report_july05.pdf

Associated Thematic Map

? 1:20 000

Location in Archive

ftp://ftpnan.env.gov.bc.ca/pub/outgoing/dist/Coast Implementation/EBM WG/Data/wildlife/

?

Data Sources

What data layers went into the mapping? What is the age, scale, accuracy of those data layers?

Input Name	Subclass	Scale	Year (s)	Derived Data
TRIM	DEM	1:20 000		Elevation, slope, aspect
Forest cover			1996	Vegetation height, crown closure, leading species, age class
BEC	Zones	1:250 0000		Biogeoclimatic subzones
Field survey	site	1:20 000	2005	Track and sign (e.g. pellets, beds, trails, browse sign), vegetation data, lichen data, and snow depths

Applied Models

What algorithms and/or rules were applied to identify the habitats?

The algorithm developed for the mid-coast by Blood et al. (2001) is modified and used to identify potential deer winter range areas within the north-coast forest district. This logarithm uses eight independent variables as key in determining potential black-tailed deer winter range areas. Variables are elevation, slope, aspect, vegetation height, crown closure, leading species, age class and biogeoclimatic subzone.

Habitat ratings

How does the model identify the different classes of habitat value?

These variables are categorized (as very high [3], high [2], moderate or low [1]) in order to provide an indication of how well the combination of variables represent deer habitat requirements. These categories are assigned based on how the attributes in the algorithm scored.

In order for an area to be assigned a very high ranking all eight attributes in the algorithm needed to score a 3. Areas assigned a high ranking had a score of 2 for biogeoclimatic zone and crown closure or species. Areas assigned a moderate ranking had a score of at least 2 for all attributes in the algorithm. Areas assigned a low ranking had a score of 1 for at slope or crown closure.

Other assumptions

What other key assumptions were made in the model?

To facilitate field visits all polygons in which all attributes scored a 1 are not considered as they have no winter range value.

Model validation

Was anything done to validate the model e.g., air photo interpretation, field verification? How accurate is the model at predicting habitat quality?

The accuracy of the algorithm in identifying potential deer winter range areas within the study area could not be assessed using data collected.

Comments

Other information relevant to the habitat mapping product

Tracks and sign were recorded for: deer, moose, porcupine, bear, wolf, marten and squirrel. Sightings of red- or blue-listed species (e.g. northern goshawk) were also recorded. Track, trail and pellet data were collected between transect. No vegetation data were collected between transects. Pellet and trail data were the only data with sufficient observations for analyses. These data were examined to determine if relationships existed between sign observed and slope, aspect, elevation, forest cover label or snow condition. It was not possible to relate lichen, vegetation and track data to deer distribution and occurrence patterns because of insufficient observations. Vegetation data were examined, to identify those species for which most use was recorded (e.g. percent use).

Report Title

Black-tailed deer winter range inventory and mapping in the mid-coast district: second year report

Report Author(s)

Robertson Environmental Services

K. Anré McIntosh, Emily Robertson and Ian Robertson

Report Year

July 2001

Geographic Coverage

BC Mid Coast Forest District

Report File Name

Rpt_0308fin.pdf

Associated Thematic Map

?

Location in Archive

ftp://ftpnan.env.gov.bc.ca/pub/outgoing/dist/Coast Implementation/EBM WG/Data/wildlife/

?

Data Sources

What data layers went into the mapping? What is the age, scale, accuracy of those data layers?

Input Name	Subclass	Scale	Year (s)	Derived Data
TRIM	Digital elevation model DEM	1:20 000		Elevation, Aspect, topographic shading
Forest cover			1996	Vegetation height (height class), age class and crown closure
Site information	Transect physical characteristics collected every 100 m		2001	Collect slope, aspect, elevation, slope position, topography, UTM location, climatic zone, percent snow cover, pattern of snow cover, snow depth, winter range value, visibility and weather. Also vegetation data such as structural stage, structural stage modifier, canopy closure, lichen loading of trees, percent blowdown with needles covering plot, presence of key forage species, presence of browse

Input Name	Subclass	Scale	Year (s)	Derived Data
				sign. Deer track and sign data

Applied Models

What algorithms and/or rules were applied to identify the habitats?

An algorithm developed by RES is applied. It uses five attributes: elevation, aspect, vegetation height, age class and canopy cover. Vegetation heights of 6-8 are classified as high. A vegetation height of 4-5 is used to define moderate.

Habitat ratings

How does the model identify the different classes of habitat value?

For an area to be assigned a high rating it must score high for elevation, aspect and sun score. Areas assigned a moderate scored moderate for the 3 TRIM attributes and 2 of the forest cover attributes, but did not score low for any attribute. Areas with any non-scoring variables are not assigned a low/no value and not identified on the resultant maps.

Other assumptions

What other key assumptions were made in the model?

The hypermaritime climatic zone is excluded from the modeled area due to a lack of sustained, deep snow packs during winter months. The algorithm would be applied to the maritime and sub-maritime climatic zones both of which have variable winter snow packs which are believed to influence deer habitat use.

Model validation

Was anything done to validate the model e.g., air photo interpretation, field verification? How accurate is the model at predicting habitat quality?

Stepwise Discriminate Analysis (DA) was run to confirm the design of the algorithm used to delineate and assign values to winter ranges. The DA analysis identified snow depths and aspect as the two most powerful variables in determining winter range in the Maritime. Only elevation was identified by the DA in the Sub-Maritime. It is interesting to note that deer were no more selective of aspect than our pre-selection in either zone. Only warm aspects were sampled and deer showed no preference for aspects within those selected.

Comments

Other information relevant to the habitat mapping product

As with any large research oriented project this study has several limitations. Three major limitations are known, such as status of deer population in the mid-coast, weather conditions, and sample sizes. These limitations affect in determine if the algorithm is accurately identifying deer winter range.

Report Title

Identifying mountain goat winter ranges in the north coast of British Columbia

Report Author(s)

McElhanney Consulting Services Ltd.

T. Brad Pollard & Jonah Keim

Report Year

March 2006

Geographic Coverage

BC North Coast Timber Supply Area

Report File Name

North coast gwr 2006_final report.pdf

Associated Thematic Map

Nc_gwr_2006.shp

Location in Archive

ftp://ftpnan.env.gov.bc.ca/pub/outgoing/dist/Coast Implementation/EBM WG/Data/wildlife/

North coast gwr 2006 shape files.zip/ Nc_gwr_2006.shp

Data Sources

What data layers went into the mapping? What is the age, scale, accuracy of those data layers?

Input Name	Subclass	Scale	Year (s)	Derived Data
Historical data winter aerial surveys		1:20 000	Feb-Mar 2001 Feb-Mar 2005	Confirm existing patterns of mountain Goat use
TRIM	25m DEM	1:20 000		Topographic parameters
Aerial helicopter survey		1:50 000		Collect winter mountain goat habitat use information and to validate and verify the applied winter habitat model and previous winter habitat mapping

Applied Models

What algorithms and/or rules were applied to identify the habitats?

The UWR polygons were completed using the application of two models. The first was a model using primarily geographic criteria to delineate goat winter ranges. Then a layer of Resource Selection Probability Function model developed by Lele and Keim (2006) is added to predict winter mountain goat habitats.

Lele and Keim (2006) found that mountain goats prefer habitats with a high heat load index (HEAT) and in close proximity to escape terrain (ET) as indicative parameters of this model

$$\pi(X;\beta) = \frac{exp(\beta_0 + \beta_1\, exp(HEAT) + \beta_2 ET)}{1 + exp(\beta_0 + \beta_1 exp(HEAT) + \beta_2 ET)}$$

These parameter and their standard errors are obtained from the inverse of the estimated Fisher Information (Hessian) matrix. The model outputs a GIS raster layer, providing a probability value for each pixel (25m x 25m pixel resolution). Those pixels having a probability greater than or equal to 0.1 are queried within the RSPF raster and vectorised to define Mountain Goat Winter Range Areas in the North Coast Forest District.

These areas were stratified for inventory and flown using helicopter to determine point and time occupancy. This was analysed to provide a statistical measure of how well the model was at predicting occupied habitat.

Habitat ratings

How does the model identify the different classes of habitat value?

Aerial inventory data from the helicopter survey and historical winter mountain goat locations are used as independent data sources for confirming mountain goat presence. Predicted winter mountain goat habitats identified by the topographic model with observed mountain goat use (observed mountain goats or mountain goat tracks from the aerial survey and by historical locations) are queried in a GIS and confirmed as occupied winter mountain goat habitats. Occupied winter habitats were then spatially digitized as polygons.

Occupied winter mountain goat habitats were categorized for habitat value using two approaches. The first approach assigns to each occupied winter habitat polygon a qualitative habitat density rating of high density, moderate density, or low density. The second approach, occupied habitat polygons having observed presence of mountain goat nursery groups are identified where nursery groups were defined by observation of at least two mountain goat individuals with at least one individual being a juvenile mountain goat. This approach is of course dependent upon the visibility of mountain goats during the helicopter survey.

Other assumptions

What other key assumptions were made in the model?

For mountain goats, access to steeper terrain is critical to avoid predation. Lele and Keim identified log likelihood values for different models and indicate that ET is the most important topographical covariate and that heat load index is the next best covariate. Other covariates such as elevation and slope were statistically insignificant.

Model validation

Was anything done to validate the model e.g., air photo interpretation, field verification? How accurate is the model at predicting habitat quality?

Validation of the existing habitat mapping and the applied model is performed in two assessments. In the first, mountain goat observations are queried by presence within the RSPF model by probability value. The cumulative percentages of observations were then summarized by minimum probability values of the RSPF model. In the second analysis the spatial location of each GPS waypoint obtained from the helicopter at the time of observation collected during the survey were compiled and queried in a GIS given distance to modeled habitats. Spatial data were then analyzed categorically as percentages of the total number of GPS waypoint locations observed in the 2005 and the 2006 survey year.

Comments

Other information relevant to the habitat mapping product

The objectives of this work included collection of winter habitat use data for mountain goats by conducting a helicopter inventory; application and testing of a geographic information system (GIS) model to confirm its accuracy and utility for mountain goat winter habitat identification in coastal ecosystems; and to further refine existing mountain goat habitat mapping.

Although, aerial helicopter survey did not intend to determine the mountain goat population or population demographics, incidental demographic population data were obtained when sex and age differentiation were apparent. Demographic data should be treated with caution given the methods employed.

Troy Larden provided two data sets. The first was a set of poly's that represented the entire goat winter range area, inclusive of protected areas, Federal lands, and Nisga'a lands. The second was a set of proposed poly's for designation under FRPA which had all of the above overlaps removed as well as overlap with THLB since policy does not allow for the establishment of UWR in these areas. If anything, the latter data set would not represent the true UWR for Goats in the North Coast because of these eliminations.

Report Title

Grizzly bear habitat mapping central coast BC-2000

Report Author(s)

A. Grant MacHutchon

Report Year

May 2001

Geographic Coverage

BC Central Coast

Report File Name

Coastal gb report 2000.pdf

Associated Thematic Map

?

Location in Archive

ftp://ftpnan.env.gov.bc.ca/pub/outgoing/dist/Coast Implementation/EBM WG/Data/wildlife/

?

Data Sources

What data layers went into the mapping? What is the age, scale, accuracy of those data layers?

Input Name	Subclass	Scale	Year (s)	Derived Data
TRIM	DEM	1:20 000		Determine important grizzly bear habitat polygons
Aerial photos	Interpretation of landscape / vegetation features			Determine important grizzly bear habitat polygons
BEC	Biogeoclimatic Units			Define important grizzly bear habitat polygons in variants of the Coastal Western Hemlock (CWH) biogeoclimatic Zone
Logging development plan of International Forest Products				Locate transitions between CWvm1 and CWHws2 variants
Ground assessments			1999-2000	Evaluated polygon habitat suitability for grizzly bears with assistance from wildlife biologist Stefan Himmer. Record details of the forest cover, shrub and herb layers, and general site

Input Name	Subclass	Scale	Year (s)	Derived Data
				characteristics. Bear food plants were listed and rated. Record evidence of bear activity. Error check and correct initial defined polygons. Rate polygons overall suitability for grizzly bears for 4 seasons
Aerial Assessments			1999-2000	Air polygon evaluation. Reforest cover, shrub layers, and general site characteristics. Error check and correct initial defined polygons. Rate polygons overall suitability for grizzly bears for 4 seasons

Applied Models

What algorithms and/or rules were applied to identify the habitats?

Habitat ratings

How does the model identify the different classes of habitat value?

Grizzly bear habitat polygons are rated with a similar method as steps 2 to 4 for identifying and rating grizzly bear foraging WHAs (FPC 1999, page 94). Each polygon was rated based on the collective contribution of each of the habitats or ecosystem units within it rather than the specific rating of any one habitat. Suitability of polygons for grizzly bears is rated using the provincially accepted 6-class rating scheme (BC MELP & BC MOF 1998, RIC 1999).

Other assumptions

What other key assumptions were made in the model?

Other grizzly bear life requirements were also considered. Therefore, polygons are rated based on evidence of grizzly bear use, grizzly bear food plant abundance and distribution within the polygon, the distribution and quality of security or thermal cover, and terrain features. Suitability for early spring (April), late spring (May), summer (June, July, August), and fall (September, October) (RIC 1999) is also rated.

Model validation

Was anything done to validate the model e.g., air photo interpretation, field verification? How accurate is the model at predicting habitat quality?

Desktop defined grizzly bear habitat polygons were Most of the polygons in these drainages were error checked in the field (90%) and corrected during ground assessments and aerial assessments. Final polygon boundaries were transferred by hand from air photos to 1:20000 TRIM maps.

Comments

Other information relevant to the habitat mapping product

The initial focus of this project was on mapping important spring and summer grizzly bear habitat in the Klinaklini, Sim, Ahta, and Seymour drainages. The mapping of important spring and summer grizzly bear habitat done in this project and by MacHutchon (2000) provides valuable information for both polygon level and landscape level forestry planning. However, there are some limitations to this mapping approach. A small proportion of available habitats within a valley was mapped because the mapping focussed on important spring and summer habitat only. As a result, it is difficult to judge the relative amount contributed by each polygon to the overall landscape supply of habitat. Grizzly bear habitat polygon maps will have to be overlain on forest cover or other ecosystem unit maps (if available) to get a better picture of the landscape context.

Report Title

Sensitivegbh_scc - read_me_gbh_shed6.pdf

Report Author(s)

Grant MacHutchon

Report Year

September 2007

Geographic Coverage

BC South Central Coast

Report File Name

Read_me_gbh_shed6.pdf

Associated Thematic Map

Sensitivegbh_scc.shp

Location in Archive

ftp://ftpnan.env.gov.bc.ca/pub/outgoing/dist/Coast Implementation/EBM WG/Data/wildlife/ Grizzly_Bear_sched6.zip/Sensitivegbh_scc.shp

Data Sources

What data layers went into the mapping? What is the age, scale, accuracy of those data layers?

Input Name	Subclass	Scale	Year (s)	Derived Data
CC07a_gbh_E	tgbh_07		2007	Grizzly bear habitat complexes with buffers
FRBC_gbh_E	frbc_gbh		1999/2000	Grizzly bear habitat complexes with buffers
FulTem_gbh_E	fulTem_gbh		2002	Non-standard TEM
IFP_gbh_E (Interfor)	ifp_gbh		2003	Grizzly bear habitat complexes without buffers
PhilTem_gbh_E	philtem_gbh		2002	Standard TEM
Mid_coast_gbh_E	tgbh07_ccs		2007	Grizzly bear habitat complexes with buffers

Applied Models

What algorithms and/or rules were applied to identify the habitats?

This coverage is a compilation of six grizzly habitat rating projects, which are described below. The project details are as follows:

FRBC (frbc_gbh); 1999 & 2000; G. MacHutchon; air photo interpretation. Majority of areas also has field verification, key field changed from Poly_Nbr (to tecp_phr_)

Phillips River TEM (philtem_gbh); 2002; T. Hamilton; Phillips River area; airphoto interpretation with field validation; habitat classification based on detailed TEM data; key field is tecp_phr_

Interfor (ifp_gbh); 2003; S. Leigh Spencer; Kingcome, Wakeman and Charles drainages; air photo interpretation with field verification; key field from Poly_Num (to tecp_phr_)

Fulmore LU TEM (fulTem_gbh); 2002; T. Hamilton; portion of TFL 47 in Fulmore landscape Unit; air photo interpretation with field verification; habitat classification based on detailed TEM data; key field changed from ID (to tecp_phr_)

MOE South Central Coast (tgbh07_ccs); early Spring 2007; G. MacHutchon; air photo interpretation with no field verification; polygons digitized at Nanaimo ILMB; key field griz_tag in coverage.

Un-assessed Area GBH Mapping Project SCC ((tgbh_07); summer 2007; Sally Leigh-Spencer; air Photo interpretation with no field verification; areas assessed: Klinaklini Glacier LU, Franklin LU and the Estero LU; polygons digitized at Nanaimo ILMB.

Habitat ratings

How does the model identify the different classes of habitat value?

Grant MacHutchon revisited the polygon attributes for the above coverages in late 2006/early 2007 so that each polygon has four ratings (early spring, late spring, summer and fall). The sensitive habitat areas were then extracted from the above to form schedule 6 (sensitive grizzly bear

Other assumptions

What other key assumptions were made in the model?

Model validation

Was anything done to validate the model e.g., air photo interpretation, field verification? How accurate is the model at predicting habitat quality?

Comments

Other information relevant to the habitat mapping product

Compilation of six grizzly habitat datasets to make seamless ranked grizzly bear habitat coverage for the South Central Coast. Datasets reviewed by Grant MacHutchon for Dave Donald in 2006/2007. Class 1 Sensitive grizzly bear habitat in the South Central Coast. Accuracy varies by project. Please refer to individual project information.

Report Title

South central coast grizzly bear habitat mapping 2007

Report Author(s)

A. Grant MacHutchon

Report Year

March 2007

Geographic Coverage

BC South Central Coast

Report File Name

South cc grizzly bear habitat 2007.pdf

Associated Thematic Map

Ccs_gbh_2007.shp

Location in Archive

ftp://ftpnan.env.gov.bc.ca/pub/outgoing/dist/Coast Implementation/EBM WG/Data/wildlife/

Grizzly_ap_habclass1to6.zip/Ccs_gbh_2007.shp

Data Sources

What data layers went into the mapping? What is the age, scale, accuracy of those data layers?

Input Name	Subclass	Scale	Year (s)	Derived Data
TRIM	DEM	1:20 000		Determine important grizzly bear habitat polygons
Aerial photos	Interpretation of landscape / vegetation features	1:15 000		Delineate potentially important spring and summer grizzly bear habitat polygons
BEC	Biogeoclimatic Units Coastal Western Hemlock (CWH)			Define important grizzly bear habitat polygons in variants of the Coastal Western Hemlock (CWH) biogeoclimatic zone

Applied Models

What algorithms and/or rules were applied to identify the habitats?

Habitat ratings

How does the model identify the different classes of habitat value?

The focus of this project was on mapping important spring and summer grizzly bear habitat. Even though we did not specifically map important fall habitat, in the process of evaluating polygons for

their importance to grizzly bears for spring and summer we also rated each for its suitability for fall so that there was complete information for each active season within each polygon.

Polygon boundaries were draw around distinct ecosystem units or complexes of two or three ecosystem units. Polygon boundaries were determined by terrain and vegetation features such as slope breaks, other natural landscape breaks, changes in forest cover type, and edges between non-forested and forested habitat.

Polygons Grizzly bear habitat polygons are rated with a similar method as steps 2 to 4 for identifying and rating grizzly bear foraging WHAs (FPC 1999, page 94). Each polygon was rated based on the collective contribution of each of the habitats or ecosystem units within it rather than the specific rating of any one habitat. Suitability of polygons for grizzly bears is rated using the provincially accepted 6-class rating scheme (BC MELP & BC MOF 1998, RIC 1999). Final polygon boundaries were transferred by hand from air photos to 1:20 000 TRIM maps.

Other assumptions

What other key assumptions were made in the model?

Other grizzly bear life requirements were also considered such as the value of a habitat polygon to grizzly bears is influenced by factors other than its stand-alone food or cover value, including its position on the landscape and proximity to other habitat polygons, the availability of animal foods such as salmon, intraspecifc and interspecific competition for habitats, and local human influences.

Model validation

Was anything done to validate the model e.g., air photo interpretation, field verification? How accurate is the model at predicting habitat quality?

There was no opportunity to field verify polygon ratings for this grizzly bear habitat mapping project because of the timing of the project (winter) and available funding. Consequently, the surveyors were careful to only map and rate polygons that they felt confident were moderate to high or high value in at least one season.

Comments

Other information relevant to the habitat mapping product

This project combines information from several studies that have used a variety of methods to delineate polygons of grizzly bear habitat and to rate those polygons for their suitability for grizzly bears for four seasons (i.e., early spring, late spring, summer, and fall). Because of these differences in approaches, the end products are not always directly comparable. Nevertheless, for ease of land use planning in the south central coast, BC MoE and ILMB are creating one spatial layer that combines the results of these five mapping projects. The table data for each project includes a unique south central coast polygon identifier (CCgbh_Nbr), the original project name, a link field between the table and spatial data, and grizzly bear habitat suitability ratings for four seasons (MURAR_PE, MURAR_PL, MURAR_S, MURAR_F). All the projects have additional ecological data assigned to mapped polygons, but because these databases have different fields and data entry protocols, this data was not directly attached to the spatial polygon data. Rather, if people want additional ecological information for a particular polygon, they have to look up the information in project specific Excel spreadsheets (e.g., by CCgbh_Nbr and Project field). As of this writing, the grizzly bear suitability ratings and ecological data for the Phillips River valley were being re-linked to the polygon spatial data using the field “Poly_Nbr” rather than the current “Tecp_Phr_” since the field “Poly_Nbr” is the one used to link the TEM data to the spatial data. In the short term, the table to spatial data link will be “Tecp_Phr_”.

Report Title

Grizzly bear habitat mapping central coast BC 2003

Report Author(s)

Naomi Palfrey

Report Year

July 2003

Geographic Coverage

BC Mid Coast Forest District

Report File Name

Final report 2003.pdf

GB WHA Mid Coast 2003 Report.pdf

Associated Thematic Map

Grizzly_bear_habitat.shp

Location in Archive

ftp://ftpnan.env.gov.bc.ca/pub/outgoing/dist/Coast Implementation/EBM WG/Data/wildlife/Grizzly_bear_habitat_midcoast.zip/Grizzly_bear_habitat.shp

Data Sources

What data layers went into the mapping? What is the age, scale, accuracy of those data layers?

Input Name	Subclass	Scale	Year (s)	Derived Data
Aerial photography				
TRIM		1:20 000		Map polygons of critical spring, summer and fall habitats
Methodologies for the Timber Supply Review 1 (TSR 1)			2001	Refinement of the methodology
Technical reports and expertise consultation	Methodologies for the Timber Supply Review 1 (TSR 1)		2001	Collect information on grizzly bear habitat and habitat mapping
Aerial photography				Identify important grizzly bear habitats (polygons)
Seasonal habitat				

Applied Models

What algorithms and/or rules were applied to identify the habitats?

Important grizzly habitat is identified, mapped and rated using similar methods to and adapted from MacHutchon (2001). Grizzly bear habitats are mapped on 1:20 000 TRIM maps using air photo interpretation.

Habitat ratings

How does the model identify the different classes of habitat value?

Aerial photographs are used to identify and rate the suitability of critical grizzly bear habitat for early spring (April), late spring (May), summer (June, July, August) and fall (September, October). The relative suitability of the polygons is based on the ecological characteristics of the seasons, the potential forage availability and distribution within the polygon, and terrain features.

The provincially accepted six class rating scheme is used to rate the relative suitability of grizzly bear habitat for each season within each polygon. Seasonal habitat ratings or classes were checked against Grant MacHutchon's generic ratings of habitat suitability for grizzly bears assigned to ecosystem classes and site series assessed in drainages of the Central Coast, B.C. during 1999 and 2000.

Other assumptions

What other key assumptions were made in the model?

The focus of the mapping was on important seasonal feeding habitat with a secondary focus on security habitat for bedding and travel within and adjacent to important feeding habitats. For this pre-typing project the goal was on identifying and classifying important feeding and security habitat in their ecosystem units such as: non-forested wetlands and berry producing areas such as riparian floodplain forests and alluvial fan forests.

For budgetary and time constraints only polygons that were high (1) or moderately high (2) in at least one season were mapped. Polygons of moderate value (3) in at least one season were identified on aerial photos but were not mapped. Outstanding terrain features and changes in vegetative type determined polygon boundaries. Because grizzly bears use the forests adjacent to feeding habitats for bedding, travel, security and thermal cover buffers were included within those polygons around non-forested and forested forage habitats. An endeavour was made to maintain the approximate size of these buffers to equal to or less than 20% of the entire polygon, anything greater would have an effect on the rating of the seasonal habitat.

Model validation

Was anything done to validate the model e.g., air photo interpretation, field verification? How accurate is the model at predicting habitat quality?

Due to time and budgetary constraints this project is deemed as pre-typing with the need for future assessments and ground validation to verify seasonal habitat composition and ratings. Some of the aerial photos that were used were old enough that the structural stage of harvested areas as seen in the photo has changed since, as well, new areas of harvest have occurred. Therefore the values given in the database for past and more recent harvest areas may need re-evaluation at a future date. Future ground validation should be used to verify grizzly bear habitat class and ecosystem site level and site series identification especially as the designations given to wetlands may not be highly accurate from aerial photo interpretation.

Comments

Other information relevant to the habitat mapping product

The purpose of this mapping project was to type critical grizzly bear habitat through air photo interpretation, review of technical reports and historical data resulting in the creation of a map and data base to document important grizzly habitat in designated LU's of the Mid Coast.

Report Title

Background document to accompany BC coastal marbled murrelet habitat suitability maps

Report Author(s)

Trudy Chatwin & Monica Mather

Report Year

January 2007

Geographic Coverage

BC Coast

Report File Name

Backgrounder to coast suitability model-with all web sites-jan 2607.pdf

Associated Thematic Map

Mamu_mm_hab2006.zip

Location in Archive

ftp://ftpnan.env.gov.bc.ca/pub/outgoing/dist/Coast Implementation/EBM WG/Data/wildlife/

Mamu_mm_hab2006.zip/mm_hab2006.e00

Data Sources

What data layers went into the mapping? What is the age, scale, accuracy of those data layers?

Input Name	Subclass	Scale	Year (s)	Derived Data
Seamless forest cover inventory		1:20 000	2002/2003	Information on forest stand attributes, non-forest areas
Timber supply area (TSA) inventory		1:20 000	1995	Information on forest stand attributes, non-forest areas
Tree farm licence (TFL) inventory		1:20 000	1997	Information on forest stand attributes, non-forest areas
Park inventory		1:20 000	1999	Forest cover inventory, tree ages, species composition
Baseline thematic map (BMT)		1:250 000	1990	General land use and land cover

Applied Models

What algorithms and/or rules were applied to identify the habitats?

It uses the Marbled Murrelet Recovery Team (MMRT 2003) bimodal model, which comprise the following parameters: age class, height class, canopy closure, elevation range, slope range, tree species, and distance from saltwater. Parameters are computed and used in the following sequence:

1. Use GIS and/or habitat maps to identify and map habitat polygons under consideration

2. Use habitat algorithms and/or recognized habitat indicators (e.g., vertically complex canopy combined with age and size of trees) to assess and rank the suitability of the habitat for nesting murrelets

3. Air photo interpretation to assess the evidence of suitable habitat using standardized criteria, including vertical complexity, tree height, stand age and other regionally relevant parameters

4. Selection of potential polygons to be protected or maintained as murrelet nesting habitat

5. Confirm that selected polygons are suitable habitat.

Habitat ratings

How does the model identify the different classes of habitat value?

Variation within each parameter is ranked on the basis of 'most likely', 'moderately likely' and 'least likely' to provide suitable nesting habitat for murrelets. The model output shows areas considered to be suitable for marbled murrelet habitat, and does not show habitat classes.

Other assumptions

What other key assumptions were made in the model?

Also, it considers the following rules:

•Include tree age classes 8 and 9 with height class 4 or greater.

•Include elevations between 0-900 m except in the North and Central Mainland Coast conservation regions where 600 m is the highest elevation included and 500 m in the Haida Gwaii (Queen Charlotte Islands) region

•Include provincial protected area on the central mainland coast

• In Haida Gwaii, correct age and height classes from the provincial database and include modified estimates dated from 2000. Elevation is limited to less than 500 m

• In the East Vancouver Island Conservation Region, remove habitat predicted on the southern Gulf Islands as there has not been any evidence of nesting in these small fragments of older forest.

Model validation

Was anything done to validate the model e.g., air photo interpretation, field verification? How accurate is the model at predicting habitat quality?

MMRT model was evaluated against the Regional model (Hobbs 2003). In general both the Regional and MMRT models are reliable in that the habitat predicted to be suitable almost always contained attributes believed to be important for nesting murrelets, and usually ranked as Likely Habitat (Very Good, Good, or Moderate) in the aerial assessments. Both models were less successful in correctly identifying Nil (totally unsuitable) habitat, but the misidentified sites usually had marginal value (ranked as Low or Very Low).

Comments

Other information relevant to the habitat mapping product

Vertical canopy complexity, canopy closure and site productivity indices were not used as the available information is patchy. The accuracy of the data is limited to that obtained in Timber Supply Review number 2 in the mid 1990's. Updates of harvesting activity since then have been included up to 1999 in the TFL's and 2000 in the TSA. Harvesting since then will not be represented until the model is updated. Use this set of maps for strategic purposes, and not for site level purposes such as locating individual Wildlife Habitat Areas.

Report Title

Watershed-level protection and management measures for the maintenance of *Ascaphus truei* populations in the Skeena region

Report Author(s)

Ascaphus Consulting

L. Dupuis (L.Dupuis@telus.net, phone898-4770, fax: 898-4742)

Report Year

March 2003

Geographic Coverage

BC North Coast

Report File Name

Tailed frog final report nc.pdf

Associated Thematic Map

?

Location in Archive

ftp://ftpnan.env.gov.bc.ca/pub/outgoing/dist/Coast Implementation/EBM WG/Data/wildlife/

?

Data Sources

What data layers went into the mapping? What is the age, scale, accuracy of those data layers?

Input Name	Subclass	Scale	Year (s)	Derived Data
BGC	Zone	1:250 000		Biogeoclimatic zone and subzones
Streams		Watershed/landscape		Streams characteristics
BTM/VRI				Forest cover
Geocode	Geocode			Bedrock type, substrate character
	DEM: Coastal, Hazelton			Elevation, slope, windward, leeward, watershed relief, ruggedness
Canadian climate normals		Region	1961-1990	Annual precipitation
Stream flow records Environment Canada			1991	Anuual stream flow rate
In situ observations	Habitat variables	Site level, 30 min time-constrained searches	2002 and early surveys	Creek ID, date, weather, and surveyor, GPS location, elevation, aspect, reach gradient, water temperature, channel

Input Name	Subclass	Scale	Year (s)	Derived Data
				unit, channel geometry, channel condition, substrate lithology, embeddedness, discharge, flow ratio, percentage sand, logged, riparian cover, flasiness, and tailed frog data
Previous tailed frog information			1990	Search effort, refine range limits

Applied Models

What algorithms and/or rules were applied to identify the habitats?

Principle Component Analysis (PCA) is employed to investigate the relationship of tailed frogs to landscape- and site-level parameters, because this test (1) does not require normality; (2) can handle categorical and ordinal variables; (3) permits the evaluation of many variables at a time; and (4) can integrate many related measurements into summary components.

Habitat ratings

How does the model identify the different classes of habitat value?

Once independent variables are organized into principle components, these components are defined by the variables with the highest component loadings. Those with an Eigenvalue greater than 1 are examined for their influence on tailed frog occurrence and abundance. Occurrence (presence/absence) is analysed using logistic regression, whilst abundance is analysed using multiple regression.

Any further exploration of relevant variables is done using Goodness of Fit, Logistic or Linear Regressions, or ANOVAs depending on whether the dependent and independent variables are nominal, ordinal or measured, and based on the measure of central tendency and dispersion for each variable. Statistical analyses are performed using SAS software. An alpha level of $p < 0.10$ was deemed appropriate in testing for significance of habitat variables, as it provides a more sensitive test for the detection of ecological trends.

Other assumptions

What other key assumptions were made in the model?

Tailed frog patterns of occurrence, abundance, and population structure might be dependent on fluvial geomorphic factors. Basin steepness is inversely correlated with tailed frog occurrence and/or abundance. Ascaphus larval densities are highest in streams dominated by boulders and cobbles and lowest or absent in stream channels dominated by fine gravel (sand and pebble sizes). Coarser substrates may provide greater interstitial space in which larvae can forage and where all individuals can seek refuge from channel disturbance events and predators. The presence of buffers and old forests within a watershed are positively correlated with larval and adult abundance of tailed frog. Bedrock type has been found to be a strong correlate with presence/absence and abundance of the tailed frog.

Model validation

Was anything done to validate the model e.g., air photo interpretation, field verification? How accurate is the model at predicting habitat quality?

Comments

Other information relevant to the habitat mapping product

This project was initiated to create a landscape and habitat predictive model for the tailed frog so that appropriate conservation tactics could be outlined and WHAs defined in the North Coast and Kalum Forest Districts. This study shows that basin area, basin ruggedness, aspect, elevation, and biogeoclimatic subzone are important predictors of tailed frog occurrence and abundance, and in the absence of site survey data, are useful in selecting good sites.

Report Title

Delineation Summary: Draft WHA for Coastal Tailed Frogs (*Ascaphus truei*) for the South Coast

Report Author(s)

Volker Michelfelder

Report Year

April 2007

Geographic Coverage

BC South Coast

Report File Name

Sc_astr_wha_del_summary.pdf

Associated Thematic Map

Astr_south_coast.shp

Location in Archive

ftp://ftpnan.env.gov.bc.ca/pub/outgoing/dist/Coast Implementation/EBM WG/Data/wildlife/

Tailed frog_mod_basinsscc.zip/Astr_south_coast.shp

Data Sources

What data layers went into the mapping? What is the age, scale, accuracy of those data layers?

Input Name	Subclass	Scale	Year (s)	Derived Data
CIT Tailed Frog model	Model	Catchment/basin scale	2007	Optimal tailed frog habitats
Previous studies	Point locations with documented presence of *A. truei*			Potential anchors for WHA
Satellite imagery	Spot 5		2005	Identify disturbed areas close to WHA

Applied Models

What algorithms and/or rules were applied to identify the habitats?

Tailed frog model developed by the Coast Information Team (CIT) is used with the following five biophysical parameters:

1. Catchment/basin areas between 0.3 and 10 km^2

2. Basins with bottom elevation < 600 m and an elevation ratio between 0.0 and 2.0, obtained as follows

$$elevation\ ratio = \frac{top\ elevation - 900\ m}{900\ m - bottom\ elevation}$$

3. Watershed ruggedness between 31 and 90%, obtained as follows

$$ruggedness = \frac{H}{\frac{A}{2}}$$

Where H = basin relief and A = basin area

4. Slope aspect

5. Forest cover age ≥ 6 as indicator of stable riparian and watershed cover.

In addition, following rules are also considered:

•Use point locations with documented presence of *A. truei* and optimal habitat sections selected by the CIT tailed frog model as potential anchors for WHA

• Chose the boundary of the catchment area and upstream of an anchor as the boundary for a WHA.

• Distribute WHA's evenly across landscape units (when possible)

• Prefer lower order streams (smaller basins) and streams with longer optimal habitat sections

• When possible avoided WHA with a large portion (>30%, arbitrary #) in contributing/partially contributing or in recently logged or otherwise disturbed areas (F10 cutblock, RSLT opening).

• At the hypermaritime avoid stream sections with large "Cedar Lakes" upstream (as such lakes have water chemistry detrimental to *A. truei*).

Habitat ratings

How does the model identify the different classes of habitat value?

Linear optimal habitat sections identified by the CIT model or point locations with documented presence of *A. truei* are used as potential "anchors" for WHA. The resulting WHA include the entire catchment/basin area upstream of a given anchor.

Tailed frog habitats were delineated at the catchment/basin scale, based on the advice of the leading tailed frog experts in the province (e.g. Depuis and Friele personal communication 2006).

Other assumptions

What other key assumptions were made in the model?

Although, the assumption that the CIT model correctly identifies optimal tailed frog habitats, this draft WHA for Coastal Tailed Frog must be viewed as an initial approximation/work in process. Defined WHA's need to be refined based on additional social/economic (e.g., stakeholder input) and biological considerations.

Model validation

Was anything done to validate the model e.g., air photo interpretation, field verification? How accurate is the model at predicting habitat quality?

The model output has not being validated. It is critical to confirm the quality of the WHA using aerial photography and/or field reconnaissance.

Comments

Other information relevant to the habitat mapping product

This WHA layer is intended as support for STRATEGIC level planning as part of the implementation of Ecosystem Based Management (EBM) on the coast. In their current form, the WHA in the layer are

not intended/suitable for formal WHA designation under FRPA (thus the name WHA is somewhat misleading).

Report Title

Proposed wildlife habitat areas for the coastal tailed frog (*Ascaphus truei*) on the central coast of British Columbia

Report Author(s)

Volker Michielfelder & Ken Dunsworth

Report Year

2007

Geographic Coverage

BC Central Coast

Report File Name

Astr_mid_coast_wha_final.pdf

Associated Thematic Map

Astr_wha_centralcoast.shp

Location in Archive

ftp://ftpnan.env.gov.bc.ca/pub/outgoing/dist/Coast Implementation/EBM WG/Data/wildlife/

Astr_midcoast.zip/ Astr_wha_centralcoast.shp

Data Sources

What data layers went into the mapping? What is the age, scale, accuracy of those data layers?

Input Name	Subclass	Scale	Year (s)	Derived Data
TRIM	DEM	1:20 000	?	elevation, aspect, basin area, position in watershed
Vegetation Resource Inventory		1:250 000	?	forest cover, forest age, forest structural stage, past logging
Spot5 satellite Imagery		2.5m; 5m and 10m pixel resolution is available	2004/5	?
In situ observations		15 m area	between May 12 and August 31, 2007	species presence, reach gradient, channel unit characteristic, substrate embeddedness, substrate texture, temperature

Applied Models

What algorithms and/or rules were applied to identify the habitats?

Initial field sampling design based on the habitat suitability model of the Coast Information Team (Rumsey et al. 2004). Variables derived through GIS spatial processing.

Habitat ratings

How does the model identify the different classes of habitat value?

Suitability ranking of potential WHAs is based on a range of habitat characteristics at the stand and watershed scale as well as confirmed presence of tailed frogs (Dupuis and Friele 2003). Ranking parameters are related to forest structure, stream morphology, terrain characteristics, and age group presence of tailed frogs. The ranking criterion is used to assign to each proposed WHA a relative rank of one to three (i.e., high-low suitability respectively). This rank is based on a relative comparison of habitat suitability of WHAs within a given landscape unit.

Other assumptions

What other key assumptions were made in the model?

The sampling effort in 2007 is only marginally suitable to make detailed ecological inferences related to tailed frog distribution patterns and associated habitat characteristics. Extensive and intensive sampling was biased by site accessibility. The sampling effort was highest in areas that are easily accessible. High water levels during the 2007 field season were not ideal for tailed frog assessments.

Model validation

Was anything done to validate the model e.g., air photo interpretation, field verification? How accurate is the model at predicting habitat quality?

For all potential WHAs, a relative habitat suitability rank between one and three (i.e., high to low suitability respectively) is assigned. The suitability rank is based on a relative comparison of WHAs within a given landscape unit. Also, individual ranking criteria are compared to an absolute optimal range.

Comments

Other information relevant to the habitat mapping product

The main objective of this works was to confirm the presence of tailed frogs and habitat suitability in enough sites to be able to distribute WHAs evenly across the project area (i.e., two-three WHAs per landscape unit). Although the habitat information generated during past inventories allowed ranking all potential WHAs in a biologically meaningful manner, the ranking scheme would benefit from additional inventory information to identify additional tributaries with tailed frogs and optimal habitat characteristic.

Report Title

An ecosystem spatial analysis for Haid Gwaii, central coast, and north coast British Columbia:

Section 2.3.3 Tailed frog (*Ascaphus truei*) habitat suitability model

Report Author(s)

Coast Information Team

Chuck Rumsey, Jeff Ardron, Kristine Ciruna, Tim Curtis, Zach Ferdaña, Tony Hamilton, Kim Heinemeyer, Pierre Iachetti, Richard Jeo, Gary Kaiser, Debbie Narver, Reed Noss, Dennis Sizemore, Art Tautz, Rick Tingey, Ken Vance-Borland

Report Year

April 2004

Geographic Coverage

BC Central Coast, North Coast and Haida Gwaii

Report File Name

C-esa-fin-04may04.pdf

Associated Thematic Map

Astr_probability.shp

Location in Archive

ftp://ftpnan.env.gov.bc.ca/pub/outgoing/dist/Coast Implementation/EBM WG/Data/wildlife/

Tailed frog_mod_mcncsc.zip/Astr_probability.shp

Data Sources

What data layers went into the mapping? What is the age, scale, accuracy of those data layers?

Input Name	Subclass	Scale	Year (s)	Derived Data
British Columbia watershed atlas				Major and third order watersheds boundaries
Small scale predictive ecosystem mapping				
Terrain resouce information mapping (TRIM)	Digital elevation model (DEM)	1:20 000 (25m pixel)		Elevation, slope, aspect
CIT forest cover				Forest cover
Field count data and time constrained search data			1994 -1998 and 2002	Model validation

Applied Models

What algorithms and/or rules were applied to identify the habitats?

CIT-Tailed frog habitat suitability model, this model is based on research by Ascaphus Consulting (Dupuis and Friele 2003) and Sutherland et al. (2001) as well as direct consultation with Pierre Friele and Linda Dupuis. It comprises five important biophysical conditions for tailed frog habitat as:

1. Basin area between 0.3 and 10 km^2

2. Basins with bottom elevation < 600 m and an elevation ratio between 0.0 and 2.0, obtained as follows

$$elevation\ ratio = \frac{top\ elevation - 900\ m}{900\ m - bottom\ elevation}$$

3. Watershed ruggedness between 31 and 90%, obtained as follows

$$ruggedness = \frac{H}{\frac{A}{2}}$$

Where H = basin relief and A = basin area

4. Slope aspect

5. Forest cover age class ≥ 6 as indicator of stable riparian and watershed cover.

Habitat ratings

How does the model identify the different classes of habitat value?

Habitat areas meeting all five biophysical conditions stated above are classified as being optimal habitat areas for tailed frog. Habitat areas meeting biophysical criteria one to three are classified as being suitable habitat areas for tailed frog.

Other assumptions

What other key assumptions were made in the model?

An area of known western range limit on the Queen Charlotte Strait is manually excluded.

Model validation

Was anything done to validate the model e.g., air photo interpretation, field verification? How accurate is the model at predicting habitat quality?

Field count data compiled by Pierre Friele and Leo Frid, and time constrained search data from 1994 to 1998 and additional data from 2002 (Dupuis and Friele 2003) were used to verify the habitat model.

Comments

Other information relevant to the habitat mapping product

This CIT model is a first of its kind in an attempt to model optimal and suitable habitat for this species at a landscape scale based on what is currently known about its local habitat. This model performed well in defining suitable and optimal tailed frog habitat, but it cannot predict probability of habitat use. This habitat suitability model is a critical step in helping us to understand the scope and scale of tailed frog habitat and hence where viable populations of this species may occur within BC. This information is critical for establishing wildlife habitat areas for this species.

DATA DICTIONARY

Filename: ASTR_midcoast

Shapefile name: Astr_wha_centralcoast.shp

Attribute Label	Attribute Name	Type	Units	Description	Info source
Presence_d	Indicates presence of	String Yes/ No	character	A survey intensity that verifies that a species is present in an area or states that it was not detected (thus not likely to be in the area, but still a possibility).	based on Linda Dupuis work (BAPID 1225) Cascade Environmental
Presence_c	Indicates presence of	String Yes/No	character	A survey intensity that verifies that a species is present in an area or states that it was not detected (thus not likely to be in the area, but still a possibility).	
Thlb_ha	Timber Harvesting Land Base - Area	Float	Hectare (ha)	Area (has) of timber harvesting land base	System dependent
Percent_th	Timber Harvesting Land Base - Percentage	Float	Percentage	Percentage (%) of timber harvesting land base	System dependent

DATA DICTIONARY

Filename: ASTR_northcoast

Shapefile name: Astr_north_coast.shp

Attribute Label	Attribute Name	Type	Units	Description	Info source
Presence_d	Indicates presence of	String Yes/No	character		
Presence_c	Indicates presence of	String Yes/No	character		
Id_tag	Identification tag	Integer			
Thlb_ha	Timber Harvesting Land Base - Area	Float	Hectare (ha)	Area (has) of timebr harvesting land base	
Cb_area		Float			
Open_area	Open area	Float			
Thlb_pct	Timber Harvesting Land Base - Percentage	Float	Percentage	Percentage (%) of timebr harvesting land base	
Cb_pct		Float			
Open_pct	Open percentage	Float			
Disturb_ar	Disturbed area	Float			
Disturb_pc	Disturbed percentage	Float			
Open_age	Open age	String	character		
Cb_age		String	character		

DATA DICTIONARY

Filename: ASTR_southcoast

Shapefile name: Astr_south_coast.shp

Attribute Label	Attribute Name	Type	Units	Description	Info source
Presence_d	Indicates presence of	String	character		
Presence_c	Indicates presence of	String	character		
Id_tag		Integer			
Thlb_ha	Timber Harvesting Land Base - Area	Float			
Cb_area		Float			
Open_area		Float			
Thlb_pct	Timber Harvesting Land Base - Percentage	Float			
Cb_pct		Float			
Open_pct		Float			
Disturb_ar		Float			
Disturb_pc		Float			
Open_age		String	character		
Cb_age		String	character		

DATA DICTIONARY

Filename: 1225_tailefrog_locations

Shapefile name: 1225_tailefrog_locations.shp

Attribute Label	Attribute Name	Type	Units	Description	Info source
Observatio		Integer			
Species_co		String			
Species_en		String			
Observed_n		Integer			
Observat_1		Date			
Observat_2		String			
Observat_3		Date			
Observat_4		Integer			
Comments		String			
Project_na		String			
Project_id		Integer			
Survey_nam		String			
Survey_met		String			
Project_we		String			
Utm_zone		Integer			
Utm_eastin		Integer			
Utm_northi		Integer			
Wlo_draft		String			
Feature_co		String			
Objectid		Integer			

DATA DICTIONARY

Filename: Tailed_frog_locations_1225

Shapefile name: Tailed_frog_locations_1225.shp

Attribute Label	Attribute Name	Type	Units	Description	Info source
Observatio		Integer			
Species_co		String			
Species_en		String			
Observed_n		Integer			
Observat_1		Date			
Observat_2		String			
Observat_3		Date			
Observat_4		Integer			
Comments		String			
Project_na		String			
Project_id		Integer			
Survey_nam		String			
Survey_met		String			
Project_we		String			
Utm_zone		Integer			
Utm_eastin		Integer			
Utm_northi		Integer			
Wlo_draft		String			
Feature_co		String			
Objectid		Integer			

DATA DICTIONARY

Filename: Tailed_frog_locations_kalum

Shapefile name: Tailed_frog_locations_kalum.shp

Attribute Label	Attribute Name	Type	Units	Description	Info source
Tcs		Integer			
Record_day		Date			
Year_		Integer			
Recorder		String			
Nad		Integer			
Utm_zone		Integer			
Utm_e		Integer			
Utm_n		Integer			
No_hatchl		Integer			
No_class		Integer			
No_class1		Integer			
No_class2		Integer			
No_class3		Integer			
No_metas		Integer			
No_juves		Integer			
No_juv_ma		Integer			
No_adults		Integer			
No_ad_mal		Integer			
No_ad_fem		Integer			
No_tadpol		Integer			
Incidental		String			

DATA DICTIONARY

Filename: Tailed_frog_locations_midcoast

Shapefile name: Tailed_frog_locations_midcoast.shp

Attribute Label	Attribute Name	Type	Units	Description	Info source
N1		Integer			
Tcs_		String			
Record_dat		String			
Year_		Integer			
Recorder		String			
Trim_map_s		String			
Nad		Integer			
Utm_zone		Integer			
Utm_e		Integer			
Utm_n		Integer			
Creekid		String			
Tavg_annua		Integer			
Tavg_summe		Integer			
Ppt_total		Integer			
Ppt_rain		Integer			
Ppt_snow		Integer			
Rain_snow		Integer			
Log_barea		Integer			
Basin_area		Integer			
Sample_ele		Integer			
Height_of_		Integer			
Relief_abo		Integer			

Attribute Label	Attribute Name	Type	Units	Description	Info source
Ruggedness		Integer			
Ruggedne_1		Integer			
Bgc_subzon		String			
Aspect		Integer			
Water_temp		String			
Reach_grad		Integer			
Bank_width		Integer			
Bankful_de		String			
Bankful_ar		String			
Bankful_ve		String			
Bankful_di		String			
Wet_width_		Integer			
Wet_depth_		Integer			
Low_flow_a		String			
Peak_summe		String			
Largest_cl		String			
Polylithic		String			
Substrate_		Integer			
Substrate1		Integer			
_Bedrock		Integer			
_Boul		Integer			
_Cob		Integer			
_Peb		Integer			
_Sand		Integer			
_Fines		Integer			
Cwd_distri		String			
Fwd_distir		String			

Attribute Label	Attribute Name	Type	Units	Description	Info source
Logged__y_		String			
Riparian_s		Integer			
Projected_		Integer			
Forest_buf		String			
Forest_b_1		String			
_Canopy_r		String			
_Canopy_l		String			
_Understo		String			
_Unders_1		String			
Time_to_fi		String			
No__hatchl		String			
No__class_		Integer			
No__class1		Integer			
No__class2		Integer			
No__class3		Integer			
No__metas		String			
No___juves		String			
No__adults		String			
No__tadpol		Integer			
Search_tim		Integer			
Tadpole_de		Integer			
Forest_dis		String			

DATA DICTIONARY

Filename: Tailed_frog_locations_merritt

Shapefile name: Tailed_frog_locations_merritt.shp

Attribute Label	Attribute Name	Type	Units	Description	Info source
Objectid		Integer			
Id_num		Integer			
Plotpoint		String			
Type_point		String			
Year_		Integer			
Month_		Integer			
Day_		Integer			
Time		Integer			
Observers		String			
River		String			
Majorstrea		String			
Minorstrea		String			
Stream		String			
Datum		String			
Zone		Integer			
Methodb		String			
Beginutme		Integer			
Beginutmn		Integer			
Numadults		String			
Numlarvae		Integer			
Ad_larv_ti		String			
Sizerange		Stringe			

Attribute Label	Attribute Name	Type	Units	Description	Info source
Numsmall		Integer			
Nummed		Integer			
Numlarge		Integer			
Fish_		String			
Beczone		String			
Elevation		Integer			
Stord50k		Integer			
Stord20k		Integer			
Treelist		String			
Strucstage		String			
Wtrtemp		Integer			
Airtemp		Integer			
Strmaspect		Integer			
Gradient		Float			
Bankfulwid		Float			
Wetwidth		Float			
Maxrespool		Float			
Breakdepth		Float			
Stage		String			
Channel		String			
Islands		String			
Bars		String			
Coupling		String			
Confinemen		String			
Totalcover		String			
Swd		String			
Lwd		String			

Attribute Label	Attribute Name	Type	Units	Description	Info source
U		String			
Dp		String			
Ov		String			
Iv		String			
Crown		Integer			
Shrubclos		Integer			
Fnl_lwd		String			
Distrlwd		String			
Domsubstr		String			
Subdomsubtr		String			
D95		Integer			
D		Integer			
Embedcobbl		Integer			
Algaecovr		Integer			
Mosscovr		Integer			
Recordedst		String			
Strmmorph		String			
Map_20k		String			
Roll_no		String			
Photopoint		String			
Photo_file		String			
In_range		String			
Plot_point		String			

DATA DICTIONARY

Filename: Tailed_frog_locations_northcoast

Shapefile name: Tailed_frog_locations_northcoast.shp

Attribute Label	Attribute Name	Type	Units	Description	Info source
Gis_case_n		Integer			
Tcs		Integer			
Record_dat		Date			
Year_		Integer			
Recorder		String			
Trim_map_s		String			
Nad		Integer			
Utm_zone		String			
Utm_e		Integer			
Utm_n		Integer			
Weather		Integer			
Creekid		String			
Sample_ele		Integer			
Height_of_		Integer			
Relief_abo		Integer			
Ruggedness		Integer			
Ruggedne_1		Integer			
Bgc_subzon		String			
Physiograp		Integer			
Aspect		Integer			
Water_temp		Integer			
Bedrock_ge		String			

Attribute Label	Attribute Name	Type	Units	Description	Info source
Geology		Integer			
Georak		Integer			
Reach_grad		Integer			
Headwater		Integer			
Headwater_1		String			
Slope_posi		String			
Reach_type		String			
Sed_floods		Integer			
Debris_flo		Integer			
Snow_avala		Integer			
Avulsions		Integer			
Braiding		Integer			
Evidence		String			
Channel_un		Integer			
Channel_1		Integer			
Channel_2		Integer			
Channel_di		Integer			
Bank_width		Integer			
Bankful_de		Integer			
Bankful_ar		Integer			
Bankful_ve		Float			
Bankful_di		Float			
Wet_width		Integer			
Wet_depth		Integer			
Low_flow_a		Integer			
Peak_summe		Float			
Largest_cl		Integer			

Attribute Label	Attribute Name	Type	Units	Description	Info source
Polylithic		Integer			
Substrate		Integer			
Substrat_1		Integer			
Bedrock		Integer			
Boul		Integer			
Cob		Integer			
Peb		Integer			
Sand		Integer			
Fines		Integer			
Cwd_distri		Integer			
Fwd_distir		Integer			
Logged		Integer			
Riparian_s		Integer			
Projected		Integer			
Forest_buf		Integer			
Forest_b_1		Integer			
Canopy_r		Integer			
Canopy_l		Integer			
Understo		Integer			
Riparian		Integer			
Understo_1		Integer			
Time_to_fi		Integer			
No_hatchl		Integer			
No_class		Integer			
No_class_1		Integer			
No_class_2		Integer			
No_class_3		Intger			

Attribute Label	Attribute Name	Type	Units	Description	Info source
No_metas		Integer			
No_juves		Integer			
No_adults		Integer			
No_tadpol		Integer			
Tadpole_ag		Integer			
Tadpole_de		Float			
Roll_no		Integer			
Photo_no		String			
Incidental		String			
Presence		Integer			

DATA DICTIONARY

Filename: Black bear_cc

Shapefile name: Qbbr_cc.e00

Attribute Label	Attribute Name	Type	Units	Description	Info source
Qbbr_cc#		Integer			
Qbbr_ccid		Integer			
Qbei_tag		String	character		
Bb_cap1	Black Bear	Float			
Bb_cap2	Black Bear	Float			
Bb_polydots	Black Bear	Float			
B250k_tag		String			
Source		String	character		
Xid		String	character		
Project		Float			
Bec_vers	Biogeoclimatic Ecosystem Classification - Version	String	character	BC Biogeoclimatic Ecosystem Classification - Version	BEC is available at http://www.for.gov.bc.ca/hre/becweb/
Eco_sec	Ecosections	String	character	Ecoregion Classification system is used to stratify British Columbia's terrestrial and marine ecosystem complexity into discrete geographical units at five levels. The two highest levels, Ecodomains and Ecodivisions, are very broad and place British Columbia globally. The three lowest levels, Ecoprovinces, Ecoregions and Ecosections are progressively more detailed and narrow in scope and relate segments of the Province to one another.	Dennis A. Demarchi's report : An Introduction to the Ecoregions of British Columbia
Bec_zone	Biogeoclimatic Ecosystem Classification - Zone	String	character	BC Biogeoclimatic Ecosystem Classification - Zone	BEC is available at http://www.for.gov.bc.ca/hre/becweb/
Bec_subz	Biogeoclimatic Ecosystem Classification - Subzone	String	character	BC Biogeoclimatic Ecosystem Classification - Subzone	BEC is available at http://www.for.gov.bc.ca/hre/becweb/

Attribute Label	Attribute Name	Type	Units	Description	Info source
Bec_vrt	Biogeoclimatic Ecoystem Classification - Variant	String	character	BC Biogeoclimatic Ecosystem Classification - Variant	BEC is available at http://www.for.gov.bc.ca/hre/becweb/
Bec_phase	Biogeoclimatic Ecosystem Classification - Phase	String	character	BC Biogeoclimatic Ecosystem Classification - Phase	
Dec1		Integer			
Hab1		String	character		
Mod1		String	character		
Ss1_0		Integer			
Ss1_1		Integer			
Ss1_2		Integer			
Ss1_3		Integer			
Ss1_4		Integer			
Ss1_5		Integer			
Ss1_6		Integer			
Dec2		Integer			
Hab2		String	character		
Mod2		String	character		
Ss2_0		Integer			
Ss2_1		Integer			
Ss2_3		Integer			
Ss2_4		Integer			
Ss2_5		Integer			
Ss2_6		Integer			
Bb_highsui	Black Bear high suitability	Float			

For a description of approaches to habitat data collection in association with wildlife inventory, consult the manual *Species Inventory Fundamentals (No. 1).*

DATA DICTIONARY

Filename: Deer_wr_mid_coast

Shapefile name: Deer_wr_mid_coast.shp

Attribute Label	Attribute Name	Type	Units	Description	Info source
Deer_tdwr		Integer			
Deer_tdwr1		Integer			
Uwr_tag		String			
Unit_no		String			
Feat_notes		String			
Fcode	Feature code	String	Character + number	Alphanumeric code used to identify a feature component of the polygon as defined by the Geographic Feature Catalogue in accordance with the CCSM (Canadian Council on Surveys and Mapping) Classification System.	Canadian Council on Surveys and Mapping
Uwr_type		String			
Species1		String			

DATA DICTIONARY

Filename: Grizcap_nc

Shapefile name: Grizcap_nc.shp

Attribute Label	Attribute Name	Type	Units	Description	Info source
Grizcap_no		Integer			
Grizcap_1		Integer			
Slp_code		Integer			
Asp_code		Integer			
Water		Integer			
Beclabel	Biogeoclimatic Ecosystem Classification - Label	String	character	BC Biogeoclimatic Ecosystem Classification - Version	BEC is available at http://www.for.gov.bc.ca/hre/becweb/
Np		Integer			
Nf		String			
Age		Integer			
Ht		Float			
Crown		Integer			
Index		Float			
Itg		Integer			
Fans		String			
Position		String			
Smr		String			
Flood		String			
Sat_cl		Integer			
Age_cl		String			
Ht_cl		String			
Shore		String			

Attribute Label	Attribute Name	Type	Units	Description	Info source
Eco	Ecoregion Classification System - Ecosections	String	character	Ecoregion Classification System is used to stratify British Columbia's terrestrial and marine ecosystem complexity into discrete geographical units at five levels. The two highest levels, Ecodomains and Ecodivisions, are very broad and place British Columbia globally. The three lowest levels, Ecoprovinces, Ecoregions and Ecosections are progressively more detailed and narrow in scope and relate segments of the Province to one another.	Dennis A. Demarchi's report : An Introduction to the Ecoregions of British Columbia
Sstage		String			
Agro_eco		String			
Source		String			
Logged		String			
Ecodomain	Ecoregion Classification System - Ecodomain	String	character	Ecoregion Classification System is used to stratify British Columbia's terrestrial and marine ecosystem complexity into discrete geographical units at five levels. The two highest levels, Ecodomains and Ecodivisions, are very broad and place British Columbia globally. The three lowest levels, Ecoprovinces, Ecoregions and Ecosections are progressively more detailed and narrow in scope and relate segments of the Province to one another	Dennis A. Demarchi's report : An Introduction to the Ecoregions of British Columbia
Ecodom_name	Ecodomain name	String	character		Dennis A. Demarchi's report : An Introduction to the Ecoregions of British Columbia
Ecodivision	Ecoregion Classification System - Ecodivision	String	character	Ecoregion Classification System is used to stratify British Columbia's terrestrial and marine ecosystem complexity into discrete geographical units at five levels. The two highest levels, Ecodomains and Ecodivisions, are very broad and place British Columbia globally. The three lowest levels, Ecoprovinces, Ecoregions and Ecosections are progressively more detailed and narrow in scope and relate segments of the Province to one another	Dennis A. Demarchi's report : An Introduction to the Ecoregions of British Columbia
Ecodiv_name	Ecodivision name	String	character		Dennis A. Demarchi's report : An Introduction to the Ecoregions of British Columbia

Attribute Label	Attribute Name	Type	Units	Description	Info source
Ecoprovinc	Ecoregion Classification System - Ecoprovince	String	character	Ecoregion Classification System is used to stratify British Columbia's terrestrial and marine ecosystem complexity into discrete geographical units at five levels. The two highest levels, Ecodomains and Ecodivisions, are very broad and place British Columbia globally. The three lowest levels, Ecoprovinces, Ecoregions and Ecosections are progressively more detailed and narrow in scope and relate segments of the Province to one another	Dennis A. Demarchi's report : An Introduction to the Ecoregions of British Columbia
Ecoprov_name	Ecoprovince name	String	character		Dennis A. Demarchi's report : An Introduction to the Ecoregions of British Columbia
Ecosection	Ecoregion Classification System - Ecosection	String	character	Ecoregion Classification System is used to stratify British Columbia's terrestrial and marine ecosystem complexity into discrete geographical units at five levels. The two highest levels, Ecodomains and Ecodivisions, are very broad and place British Columbia globally. The three lowest levels, Ecoprovinces, Ecoregions and Ecosections are progressively more detailed and narrow in scope and relate segments of the Province to one another	Dennis A. Demarchi's report : An Introduction to the Ecoregions of British Columbia
Ecosec_name	Ecosection name	String	character		Dennis A. Demarchi's report : An Introduction to the Ecoregions of British Columbia
Fcode	Feature code	String	Character + number	Alphanumeric code used to identify a feature component of the polygon as defined by the Geographic Feature Catalogue in accordance with the CCSM (Canadian Council on Surveys and Mapping) Classification System.	Canadian Council on Surveys and Mapping
Capability		Float			

DATA DICTIONARY

Filename: Grizzly_bear_habitat_classes_non_contributing

Shapefile name: Class_1_class_2_non_contributing_.shp

Attribute Label	Attribute Name	Type	Units	Description	Info source
Fid_grizzl					
Fid_polygon					
Tthlb_dmc_					
Tthlb_dmc1					
Contclas					

DATA DICTIONARY

Filename: Grizzly_bear_habitat_midcoast

Shapefile name: Grizzly_bear_habitat.shp

Attribute Label	Attribute Name	Type	Units	Description	Info source
Qflu_nbr					
Poly					
Drainage					
Hc_espr					
Hc_lspr					
Hc_summ					
Hc_fall					
Tgbh_tag					
Tgbh_dmc_i					
Fcode	Feature code	String	Character + number	Alphanumeric code used to identify a feature component of the polygon as defined by the Geographic Feature Catalogue in accordance with the CCSM (Canadian Council on Surveys and Mapping) Classification System.	Canadian Council on Surveys and Mapping
Objectid					
Geometry_a					
Geometry_l					

DATA DICTIONARY

Filename: Tfl39_grizzly

Shapefile name: Tfl39_grizzly_.shp

Attribute Label	Attribute Name	Type	Units	Description	Info source
Oflu					
Labelname					
Unit_no					
Objectid					
Geometry_a					
Geometry_l					

DATA DICTIONARY

Filename: Goat_uwr_6-001_jan07

Shapefile name: Goat_uwr_6-001_jan07.shp

Attribute Label	Attribute Name	Type	Units	Description	Info source
Recnmbr		Integer			
Goat_use		String			
Uwr_tag		String			
Unit_no		String			
Species1		String			
Fcode	Feature code	String	Character + number	Alphanumeric code used to identify a feature component of the polygon as defined by the Geographic Feature Catalogue in accordance with the CCSM (Canadian Council on Surveys and Mapping) Classification System.	Canadian Council on Surveys and Mapping

DATA DICTIONARY

Filename: Mamu_midcoast_binom

Shapefile name: Mamu_midcoast_binom.shp

Attribute Label	Attribute Name	Type	Units	Description	Info source
Suit_		Integer			
Suit_id		Integer			
Hab_suit		String			

DATA DICTIONARY

Filename: Mamu_midcoast_hobbs

Shapefile name: Mamu_midcoast_hobbs.shp

Attribute Label	Attribute Name	Type	Units	Description	Info source
Hsi_dmc_02		Integer			
Hsi_dmc_03		Integer			
Hsi_elim_0		Integer			
Hsi_elim_1		Integer			
Hsi_rank		Integer			
Qbec_bc		Integer			
Qbec_bci,d		Integer			
Beclabel	Biogeoclimatic Ecosystem Classification - Label	String	character	BC Biogeoclimatic Ecosystem Classification - Version	BEC is available at http://www.for.gov.bc.ca/hre/becweb/
Fcn		Integer			
Fcode	Feature code	String	Character + number	Alphanumeric code used to identify a feature component of the polygon as defined by the Geographic Feature Catalogue in accordance with the CCSM (Canadian Council on Surveys and Mapping) Classification System.	Canadian Council on Surveys and Mapping
Zone	Biogeoclimatic Ecosystem Classification - Zone	String	character	BC Biogeoclimatic Ecosystem Classification - Zone	BEC is available at http://www.for.gov.bc.ca/hre/becweb/
Subzone	Biogeoclimatic Ecosystem Classification - Subzone	String	character	BC Biogeoclimatic Ecosystem Classification - Subzone	BEC is available at http://www.for.gov.bc.ca/hre/becweb/
Varian	Biogeoclimatic Ecoystem Classification - Variant	String	character	BC Biogeoclimatic Ecosystem Classification - Variant	BEC is available at http://www.for.gov.bc.ca/hre/becweb/
Phase	Biogeoclimatic Ecosystem Classification - Phase	String	character	BC Biogeoclimatic Ecosystem Classification - Phase	

ATA DICTIONARY

Filename: Mamu_mmrt_suit_model

Shapefile name: Mmhabsuit_05.shp

Attribute Label	Attribute Name	Value	Units	Description	Info source
Mmhabsuit_					
Mmhabsuit_					
Hab_suit					
Diz					
District_n					
Mmcr_name					

DATA DICTIONARY

Filename: Mamu_proposed_wha,s_aug06

Shapefile name: Mamu_proposed_whas_aug06.shp

Attribute Label	Attribute Name	Value	Units	Description	Info source
Tpwha_tag		String			
Species		String			
Wha_name		String			
Feat_notes		String			
Wlap_reg		String			
For_dist		String			
Fcode_1	Feature code	String	Character + number	Alphanumeric code used to identify a feature component of the polygon as defined by the Geographic Feature Catalogue in accordance with the CCSM (Canadian Council on Surveys and Mapping) Classification System.	Canadian Council on Surveys and Mapping

DATA DICTIONARY

Filename: Mamu_wha_new

Shapefile name: Mamu_wha_new.shp

Attribute Label	Attribute Name	Type	Units	Description	Info source
Wha_		Integer			
Wha_id		Integer			
Tpwha_tag		String			
Species		String			
Wha_name		String			
Feat_notes		String			
Type		String			
Wlap_reg		String			
For_dist	Forest district				
Fcode	Feature code	String	Character + number	Alphanumeric code used to identify a feature component of the polygon as defined by the Geographic Feature Catalogue in accordance with the CCSM (Canadian Council on Surveys and Mapping) Classification System.	Canadian Council on Surveys and Mapping
Eco_sectio	Ecosections	String	character	Ecoregion Classification system is used to stratify British Columbia's terrestrial and marine ecosystem complexity into discrete geographical units at five levels. The two highest levels, Ecodomains and Ecodivisions, are very broad and place British Columbia globally. The three lowest levels, Ecoprovinces, Ecoregions and Ecosections are progressively more detailed and narrow in scope and relate segments of the Province to one another.	Dennis A. Demarchi's report : An Introduction to the Ecoregions of British Columbia
Bgc	Biogeoclimatic (BGC) units	String	character	Biogeoclimatic (BGC) units represent classes of ecosystems under the same regional climate. There is a hierarchy of units with the biogeoclimatic subzone being the basic unit. The 76 subzone are grouped into 14 zones and divided into variants and phases, based on similarities and differences in regional climate.	BEC is available at http://www.for.gov.bc.ca/hre/becweb/resources/codes-standards/standards-becdb.html

Attribute Label	Attribute Name	Type	Units	Description	Info source
Bgc_zone	Biogeoclimatic (BGC) zone	String	character	Biogeoclimatic (BGC) units represent classes of ecosystems under the same regional climate. There is a hierarchy of units with the biogeoclimatic subzone being the basic unit. The 76 subzone are grouped into 14 zones and divided into variants and phases, based on similarities and differences in regional climate.	BEC is available at http://www.for.gov.bc.ca/hre/becweb/resources/codes-standards/standards-becdb.html
Tmp		String			

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