

APPLICATION FOR ECOLOGICAL RESERVE

1. Legal description of the area (or general "Metes and bounds" description)

Mount Waddington Sheet 92N

Irregular area bounded by 124°02' - 124°22' W longitude x
51°06' - 51°15' N latitude.

Northern boundary = 9-mile creek and Franklyn Arm of Chilko Lake; Eastern boundary = Chilko Lake; Southern boundary = Farrow Creek, Boulanger Creek and divide west of Southgate River; Western boundary = divide east of Allaire Creek.

2. Geographical location (relate to nearest settlement, mountain, river, etc.)

Good Hope Mountain - Franklyn Arm of Chilko Lake

3. Indicate the biogeoclimatic zone of which the reserve is representative.

IDFb

ESSF

4. Approximate total acreage.

84.2 square miles (54,000 acres)

5. Purpose of the reserve.

(a) Primary (state acreage)

84.2 square miles (54,000 acres)

(b) Others if any (state acreage)

(c) Buffer areas (state acreage)

6. Attach a map and indicate: (a) the perimeters and acreage of the areas detailed in 5 above, and (b) indicate the species and total timber volumes in these areas.

INTERNATIONAL BIOLOGICAL PROGRAMME

SECTION CT: CONSERVATION OF TERRESTRIAL BIOLOGICAL COMMUNITIES

CHECK SHEET (Mark VII) FOR SURVEY OF IBP AREAS*

To be completed with reference to the GUIDE TO THE CHECK SHEET

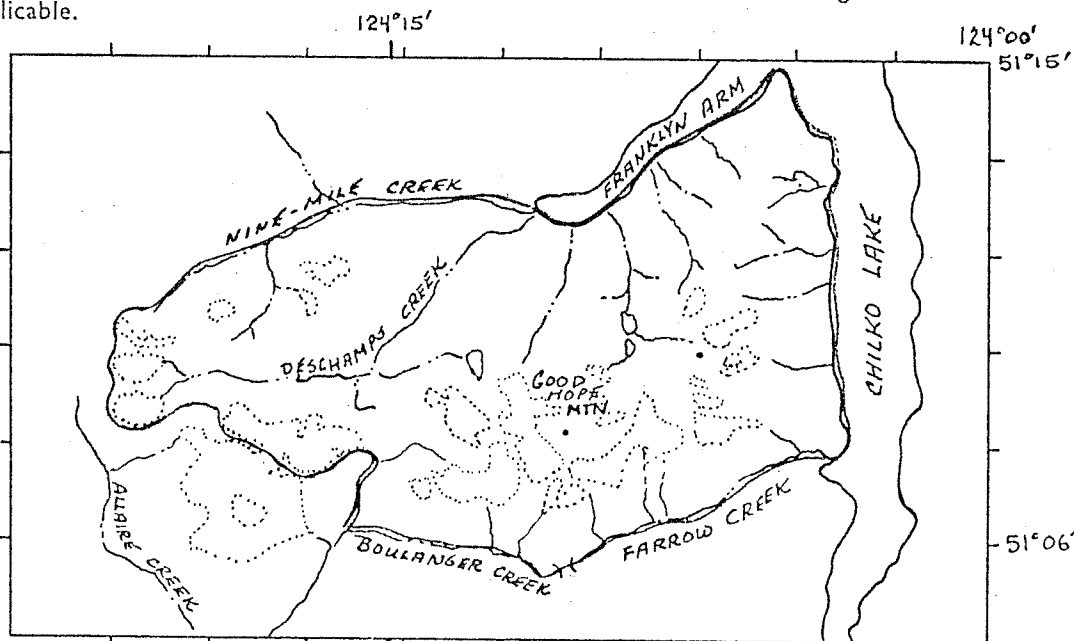
Serial Number

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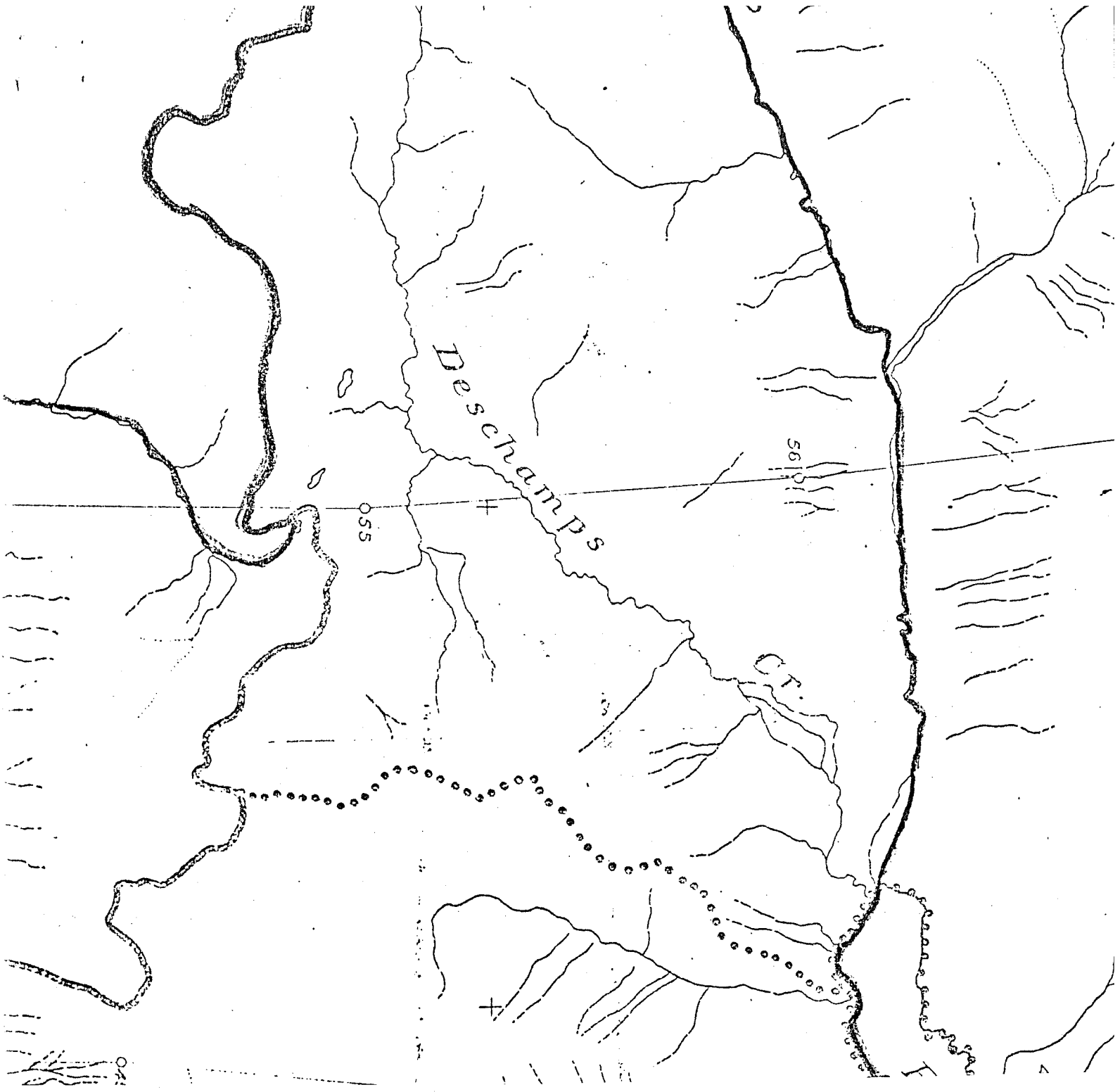
For Data Centre only

1. Name of surveyor R. E. Foreman
2. Address of surveyor Department of Botany
 University of British Columbia
 Vancouver 8, B.C.
3. Check Sheet completed (a) on site (b) from records
4. Date Check Sheet completed

2. 1. Name of IBP Area Good Hope Mtn. - Franklyn Arm Chilko Lake
2. Name of IBP Subdivision (or serial letter) IDfb, ESSF, AT British Columbia
3. Map of IBP Area* showing boundaries attached? Yes^x..... No
4. Sketch map of IBP Area*. Please mark direction of north, the scale and grid numbers where applicable.



* For "IBP Area", read IBP Area and/or IBP Subdivision.



3. Location of IBP Area*

1. Latitude 51 ° 06' - 15' N/S Longitude 124 ° 02' - 22' E/W
2. Country Canada
- State or Province British Columbia County
- (State or Province County)

4. Administration

- National 1. Official category Crown Land
2. Address of administration B.C. Department of Lands, Forests and Water Resources
Parliament Buildings
Victoria, B.C., Canada

International Class

3.

Included in U.N. List	Rejected from U.N. List	Area with formal conservation status	No formal cons. status
(A)	(B)	(C)	(D)

5. Characteristics of IBP Area*

1. Surface area (state units of measurement) 84.2 sq. miles (54,000 acres)
2. Altitude (state units of measurement) Maximum 10,630'
- Minimum 3,900'

6. Climate

Nearest climatological station :

1. Name Tatlayoko Lake
2. Climatological station on IBP Area*? Yes No ...X.....
3. If (2) not, distance from edge of IBP Area* (state units) 40 miles
4. Direction from IBP Area* north-northwest
5. Additional data sheet attached? Yes No ...X.....

7.

Vegetation and Soil

1

Vegetation

Community Reference Number	Vegetation Code					Plant communities (give usual name using full Latin names of a species where applicable)	Area (state units)
	Primary Structural Group	Class	Group	Formation	Sub-Formation		
1						The information will be supplied later	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Please give information about further communities on a separate sheet.

7.
(cont.)

2

Soil

Community Reference Number	Soil type	Other notes
1		The information will be supplied later.
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

9. Landscape

1. General Landscape (give brief description) ... Glaciated mountainous region
including highland glaciers, alpine valley glaciers and cirque glaciers.
Valleys mostly glacial troughs with characteristic stairway descent.
Several series of paternoster lakes and braided streams on valley floor.

2. Relief Type

	Flat	Undulating (0)-200 m.	Hilly 200-1000 m.	Mountainous > 1000 m.	%
Sharply dissected				95	95
Gently dissected	5				5
Incised					
Skeletonised					
%	5			95	100%

3. Special landscape features (list) ... Presence of several valley glaciers
extending below tree-limit, good paternoster series, good trim-line
features.

10. Coastline of IBP Area*

1. Protected bays and/or inlets Many Few None

2. Substratum. % of coast

Rock	Boulder Beach	Shingle Beach	Sand Beach	Shell Beach	Mud	Coral	Ice
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. Physiography. % of coast
- | Cliffed | Sloping | Flat |
|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

4. Special Coastal Features (list)

5. Tide. Maximum range (state units of measurement)

6. Total length of coastline :
- Less than 1 km. 1-10 km. Above 10 km.

11. Freshwater within IBP Area*

1.

	Permanent	Intermittent
General	x	
Standing	x	
Running	x	

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps	bogs			
Ponds	x			
Lakes	x			

3. Running Water

	Permanent	Intermittent
Springs, cold		
Springs, hot		
Streams	x	x
Rivers		

4. Special freshwater features ... Glacier lakes, paternoster lakes
.....

12. Salt and Brackish Water within IBP Area*

Salt Lakes	<input type="checkbox"/>	Lagoon	<input type="checkbox"/>	<input type="checkbox"/>
Estuaries	<input type="checkbox"/>	Salt pools	<input type="checkbox"/>	<input type="checkbox"/>

13. Adjacent Water Bodies (not within IBP Area*)

1. Fresh Lake River Stream

2. Salt and Brackish

Estuary	Salt lake	Salt pool	Lagoon	Ocean		

14. Outstanding Floral and Faunal Features

1. None

2. Fauna

	Species diversity	Abundance of individuals	Superabundance of individuals	Rare species	Threatened/Relict species	Spp. of biogeographical interest	Exceptional Associations	Breeding or Nesting Populations	Migrating Populations	Wintering Populations		
Mammalia												
Aves												
Reptilia												
Amphibia												
Pisces												
Insecta												

3. Names of main threatened, endemic, relict and rare species

.....

4. Flora

	Species diversity	Abundance of particular species	Rare species	Threatened/relict species	Spp. of biogeographical interest	Exceptional associations	Outstanding specimens				
Angiospermae :											
trees											
shrubs											
herbs											
grass											
Gymnospermae											
Pteridophyta											
Bryophyta											
Lichens and Algae											

5. Names of main threatened, endemic, relict and rare species

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15. Exceptional Interest of IBP Area*

Aerial reconnaissance of the Coast Range from Vancouver to Klinaklini River revealed that the proposed area represents one of the best areas in the southern portion of the range for ecological research. The combination of easy accessibility and environmental diversity was not duplicated elsewhere. The area appears excellent for research on 1) the western limits of the Interior Douglas Fir Zone (IDFb), transition between the wetter western exposure and drier interior of the Coast Range, and the influence of glaciers on vegetation. Several sequences of paternoster lakes and bogs plus abundant morainal features would permit studies of post-glacial plant succession.

16. Significant Human Impact

1. General: None in entire IBP Area* none as yet
 None in part of IBP Area*
 Impact on entire IBP Area*

2. Particular

	Past impact	Present impact	Trend			
			Increasing	Decreasing	No change	No information
Cultivation						
Drainage						
Other soil disturbance						
Grazing						
Selective flora disturbance						
Logging			x			
Plantation						
Hunting			x			
Removal of predators						
Pesticides						
Introductions — plants						
Introductions — animals						
Fire						
Permanent habitation						
Recreation and tourism			x			
Research			x			

3. Additional details on each type of impact attached?

Yes No^x

17.

Conservation Status

	Protection			Utilisation			Conservation Management			Permitted Research		
	none	partial	total	none	controlled	uncontrolled	none	to alter status	to maintain status	experimental	observational	prohibited
Flora												
Fauna												
Non-living												

18.

References

1. List major biological/geographical references for the IBP Area.

Sheet attached? Yes No

2. List main maps available for the IBP Area.

List attached? Yes No

3. Aerial photographs for the IBP Area available?

For whole area For part of area None

19.

Other Relevant Information

This constitutes a preliminary proposal which will be followed by a ground survey. It is presented now with the hope that any proposed alienation of the area will be postponed until a final report/proposal can be prepared.

The area is a proposed site for graduate student research on plant succession.

Signed
(Surveyor)