

APPLICATION FOR ECOLOGICAL RESERVE

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

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

Lagopus Mountain - Mount Cronin, north of Smithers

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

ESSF, AT

4. Approximate total acreage.

3,328 acres

5. Purpose of the reserve.

To preserve the valley (glacier kettle) with the interior subalpine zone and the alpine tundra zone.

(a) Primary (state acreage)

A: 827 acres

(b) Others if any (state acreage)

B(alpine): 2,501 acres

(c) Buffer areas (state acreage)

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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.

Abies lasiocarpa, Picea engelmannii, P. glauca, xP. engelmannii x P. glauca, Pinus contorta; only about 300 acres are producing some merchantable trees, 527 acres are with scrubby trees; 2,501 acres are without trees.

Signature

V. J. Krajina J. Pojar
V. J. Krajina, J. Pojar,

I.B.P. Surveyor C. Parsons
C. Parsons

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

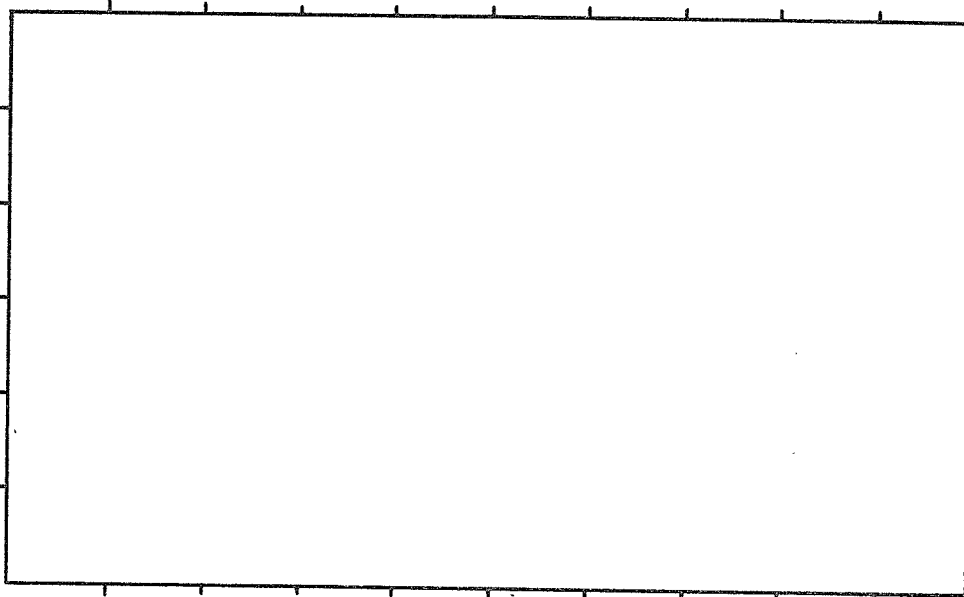
Serial Number

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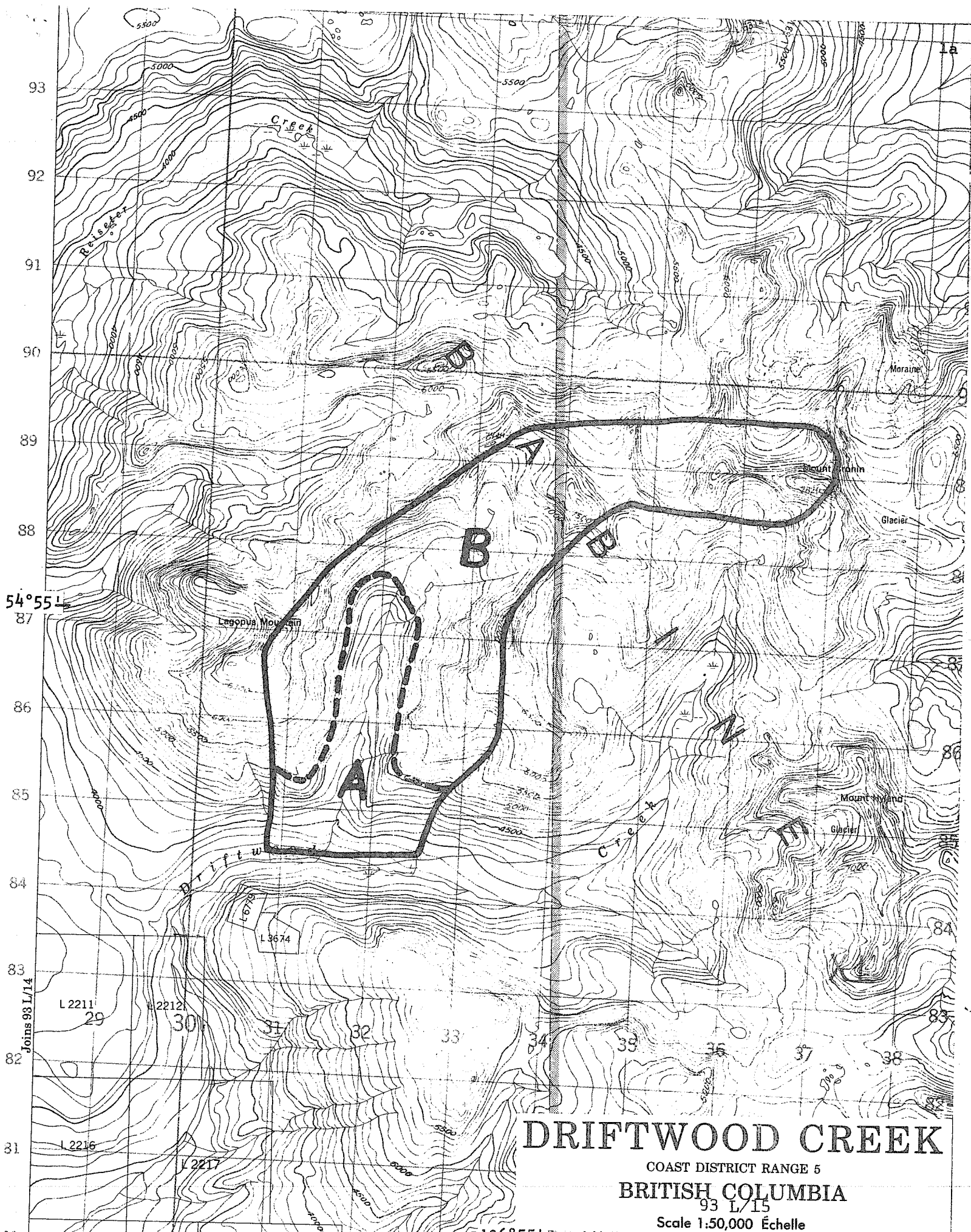
For Data
Centre Use
only

- 1.
1. Name of surveyor V. J. Krajina, J. Pojar, C. Parsons
 2. Address of surveyor Dept. of Botany
..... University of British Columbia
..... Vancouver, B. C.
 3. Check Sheet completed (a) on site X (b) from records X
 4. Date Check Sheet completed July 27 and October 23, 1974

- 2.
1. Name of IBP Area Lagopus Mountain - Mount Cronin glacier valley
 2. Name of IBP Subdivision (or serial letter) ESSF, AT
 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.



DRIFTWOOD CREEK

COAST DISTRICT RANGE 5
BRITISH COLUMBIA
93 L/15

Scale 1:50,000 Échelle

3. Location of IBP Area*

1. Latitude 54 ° 53.6-56.3' N/S Longitude 126 ° 51.9-57.9' E/W
2. Country Canada
- State or Province British Columbia County Smithers
- (State or Province County)

4. Administration

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

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) X

5. Characteristics of IBP Area*

1. Surface area (state units of measurement) 3,328 acres (A: 827; B: 2,501 acres)
2. Altitude (state units of measurement) Maximum 7820 ft. (2384 m)
- Minimum 3700 ft. (1128 m)

6. Climate

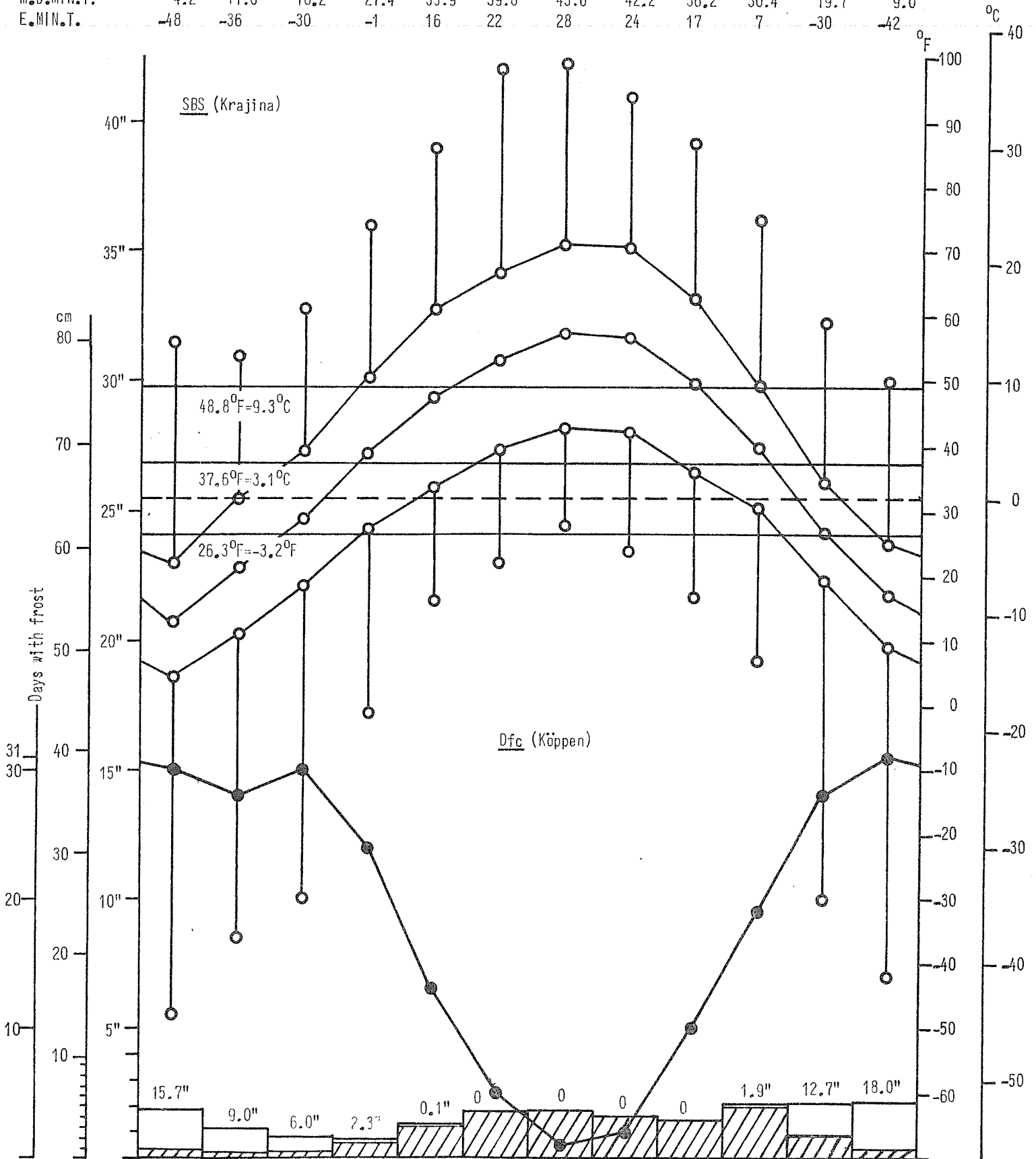
Nearest climatological station :

1. Name Smithers, B. C.
2. Climatological station on IBP Area*? Yes No X
3. If (2) not, distance from edge of IBP Area* (state units) 13 mi.
4. Direction from IBP Area* S-S-W.....
5. Additional data sheet attached? Yes X No

SMITHERS (CDA) 54°44'N, 127°06'W, 1690' ASL. Record: 25-31 years.

Months above 50°F: 3, below 32°F: 5, A.M.T.P. 19.38", A.M.S.F. 65.7", snow % A.M.T.P.: 33.90, days with frost, yearly: 221.

E. MAX. T.	56	54	61	74	86	98	99	94	87	75	59	50
M. D. MAX. T.	22.0	32.0	39.6	50.2	61.5	66.9	71.0	70.5	62.8	49.1	34.3	25.5
M. D. T.	13.1	21.6	28.9	38.8	47.8	53.4	57.3	56.4	49.5	39.8	27.0	17.3
M. D. MIN. T.	4.2	11.0	18.2	27.4	33.9	39.8	43.6	42.2	36.2	30.4	19.7	9.0
E. MIN. T.	-48	-36	-30	-1	16	22	28	24	17	7	-30	-42



Days with frost	30	28	30	24	13	5	1	2	10	19	28	31
M.M.F.P.	1.90	1.10	0.88	0.71	1.38	1.74	1.89	1.64	1.54	2.18	2.13	2.19
MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

7. Vegetation and Soil

1 Vegetation

Biogeoclimatic zones:

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	1	B	1	6		<i>Vaccinium membranaceum</i> - <i>Menziesia ferruginea</i> <i>Abies lasiocarpa</i> (krummholz) assoc.	
2	1	G	2	1		<i>Salix arctica</i> ass.	
3	1	N	2	1		<i>Valeriana sitchensis</i> - <i>Ranunculus occidentalis</i> <i>Veratrum viride</i> ass.	
4	1	M	2	1		<i>Festuca altaica</i> ass.	
5	1	G	2	1		<i>Salix reticulata</i> ass.	
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

ESSF

AT

Please give information about further communities on a separate sheet.

Lagopus Mountain - Mount Cronin
Partial list of plants:

Vascular plants:	<i>Abies lasiocarpa</i>
	<i>Antennaria friesiana</i> (=A. alpina)
	<i>Caltha leptosepala</i>
	<i>Carex lachenalii</i>
	<i>Carex microchaeta</i>
	<i>Carex nigricans</i>
	<i>Castilleja miniata</i>
	<i>Draba crassifolia</i>
	<i>Epilobium latifolium</i>
	<i>Equisetum arvense</i>
	<i>Festuca altaica</i>
	<i>Festuca brachyphylla</i>
	<i>Geranium ? erianthum</i>
	<i>Heuchera</i> sp.
	<i>Juncus drummondii</i> , <i>Juncus parryi</i>
	<i>Lycopodium sitchense</i>
	<i>Menziesia ferruginea</i>
	<i>Osmorhiza purpurea</i>
	<i>Oxyria digyna</i>
	<i>Picea engelmannii</i>
	<i>Picea glauca</i>
	<i>Pinus albicaulis</i>
	<i>Polystichum lonchitis</i>
	<i>Potentilla diversifolia</i>
	<i>Potentilla uniflora</i>
	<i>Ranunculus abortivus</i>
	<i>Ranunculus eschscholtzii</i>
	<i>Ranunculus occidentalis</i>
	<i>Rumex alpestris</i>
	<i>Salix arctica</i>
	<i>Salix barclayi</i>
	<i>Salix reticulata</i>
	<i>Saxifraga lyallii</i>
	<i>Senecio triangularis</i>
	<i>Trisetum spicatum</i>
	<i>Vaccinium membranaceum</i>
	<i>Valeriana sitchensis</i>
	<i>Veratrum viride</i>
Moss and lichen layers:	<i>Cetraria</i> spp.
	<i>Cladonia</i> spp.
	<i>Hylocomium splendens</i>
	<i>Peltigera</i> spp.
	<i>Pleurozium schreberi</i>
	<i>Pseudoleskea patens</i>
	<i>Scapania</i> sp.

7.
(cont.)

2

Soil

Community Reference Number	Soil type	Other notes
1	ABC F ₅	Brunisol
2	AC F ₃	Brown Ranker
3	AGC P ₂	Gleysol
4	A(B)C/ABC F ₄ /F ₅	Alpine Brunisol
5	AGC P ₁	Gleyed Alpine Brunisol
6		
7		
8		
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11		
12		
13		
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9. Landscape

1. General Landscape (give brief description) ...Valley of a glacier, which used to fill this area during the glaciation and which remains in small extent in the upper parts of the valley, especially below Mount Cronin.

2. Relief Type

	Flat	Undulating (0)-200 m.	Hilly 200-1000 m.	Mountainous > 1000 m.	%
Sharply dissected				50	50
Gently dissected				10	10
Incised				40	40
Skeletonised					
%				100	100%

3. Special landscape features (list) .A glacier, remaining in about 15% area of B area (AT) covering about 375 acres.

10. Coastline of IBP Area* none

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)

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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		
Standing	X	X
Running	X	X

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps	X	X	X	
Ponds	X			
Lakes				

(very little)

3. Running Water

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

4. Special freshwater features ..a waterfall on the main stream of the
..... valley.....

12. Salt and Brackish Water within IBP Area* none

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 none

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		X						X				
Aves		X						X	X			
Reptilia												
Amphibia		?										
Pisces		?										
Insecta		X						X		X		

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

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4. Flora

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

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

Pinus albicaulis is here at its most northern locality, known at the present time.

15. Exceptional Interest of IBP Area*

An outstanding glacier kettle, still glaciated in the uppermost elevations and occupied by the interior subalpine zonal vegetation in its elevations below 5500' (1675 m).

16. Significant Human Impact

1. General : None in entire IBP Area*X.....
 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					X	
Drainage					X	
Other soil disturbance					X	
Grazing					X	
Selective flora disturbance					X	
Logging					X	
Plantation					X	
Hunting			X			
Removal of predators					X	
Pesticides					X	
Introductions — plants					X	
Introductions — animals					X	
Fire					X	?
Permanent habitation					X	
Recreation and tourism			X			
Research					X	

3. Additional details on each type of impact attached?

Yes NoX.....

17. Conservation Status (required)

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

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.

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List attached? Yes No

3. Aerial photographs for the IBP Area available?

For whole areaX..... For part of area None

19. Other Relevant Information

This area should remain accessible for hiking tourists.

V.J. Krajina Jim Pojar
 Signed V.J. Krajina, Jim Pojar,.....
 (Surveyor)
 Calvin Parsons *C. Parsons*