

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.)

Telkwa Range and Glacis Creek valley, southwest of Telkwa

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

ESSFb, AT

4. Approximate total acreage.

7792 acres

5. Purpose of the reserve.

To conserve an Alpland (ESSFb & AT) with volcanic rocks which are nutritionally rich (vegetation is composed of many species)

 - (a) Primary (state acreage)

7792 acres

 - (b) Others if any (state acreage)

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 - (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 glauca, P. engelmannii, Pinus albicaulis (very little), however, the timber volume in proposed area is negligible.

V.J. Krajina Jim Pojar
Signature V.J. Krajina, Jim Pojar,
I.B.P. Surveyor
Calvin 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

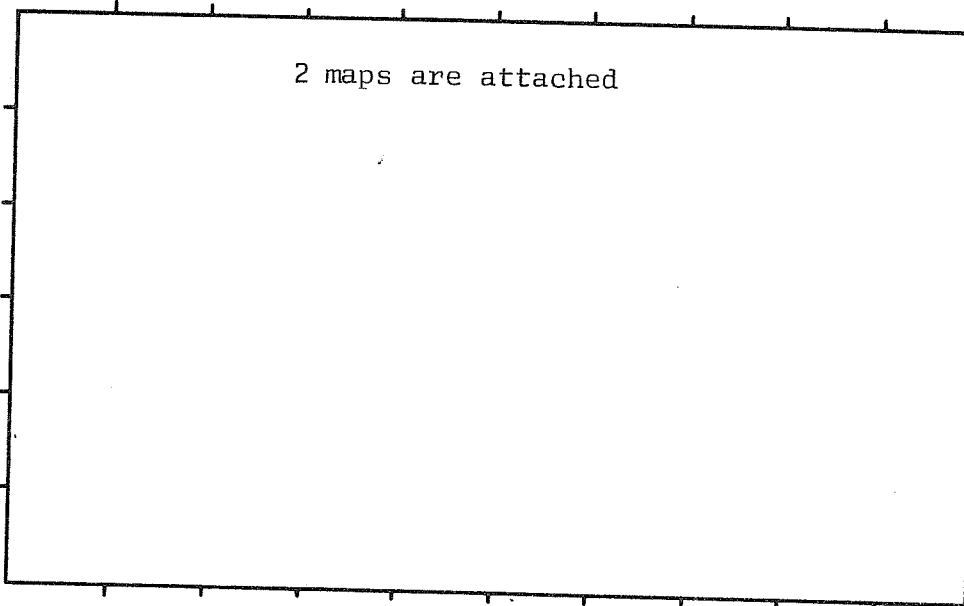
Serial Number

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For Data
Centre Use
only

- 1.
1. Name of surveyor V.J. Kraiina, Jim Pojar and Calvin Parsons
 2. Address of surveyor Department of Botany
University of British Columbia
Vancouver, B.C.
 3. Check Sheet completed (a) on siteX..... (b) from recordsX.....
 4. Date Check Sheet completed October 27, 1974

- 2.
1. Name of IBP Area Telkwa Range and Glacis Creek valley, southwest of
 2. Name of IBP Subdivision (or serial letter) ESSFb and AT Telkwa
 3. Map of IBP Area* showing boundaries attached? YesX..... 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.

INDEX TO ADJOINING SHEETS

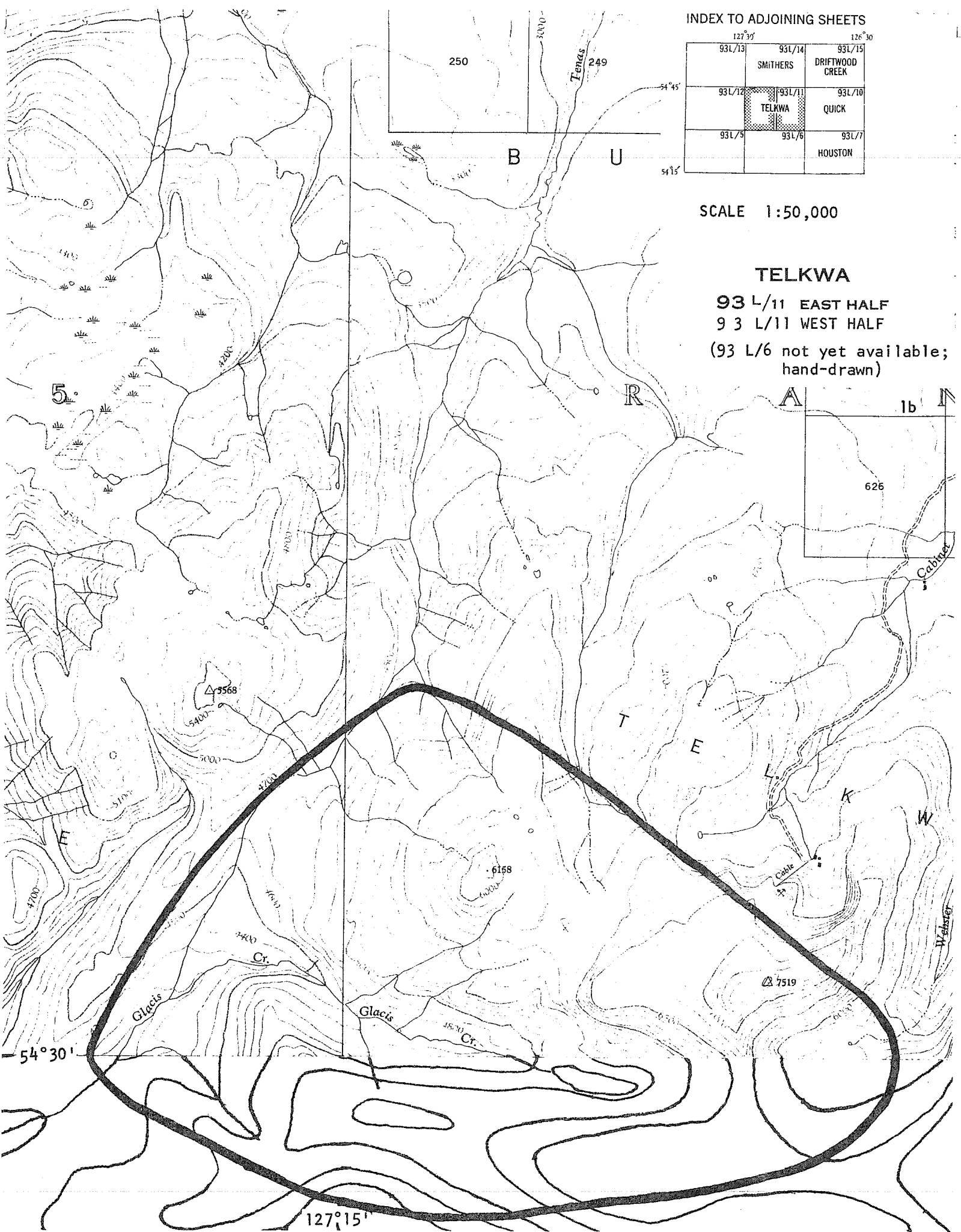
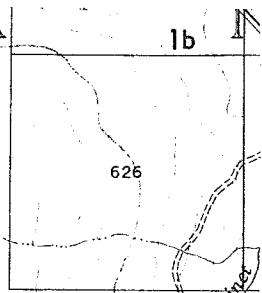
93L/13	93L/14	93L/15
	SMITHERS	DRIFTWOOD CREEK
93L/12	93L/11	93L/10
	TELKWA	QUICK
93L/9	93L/6	93L/7
		HOUSTON

SCALE 1:50,000

TELKWA

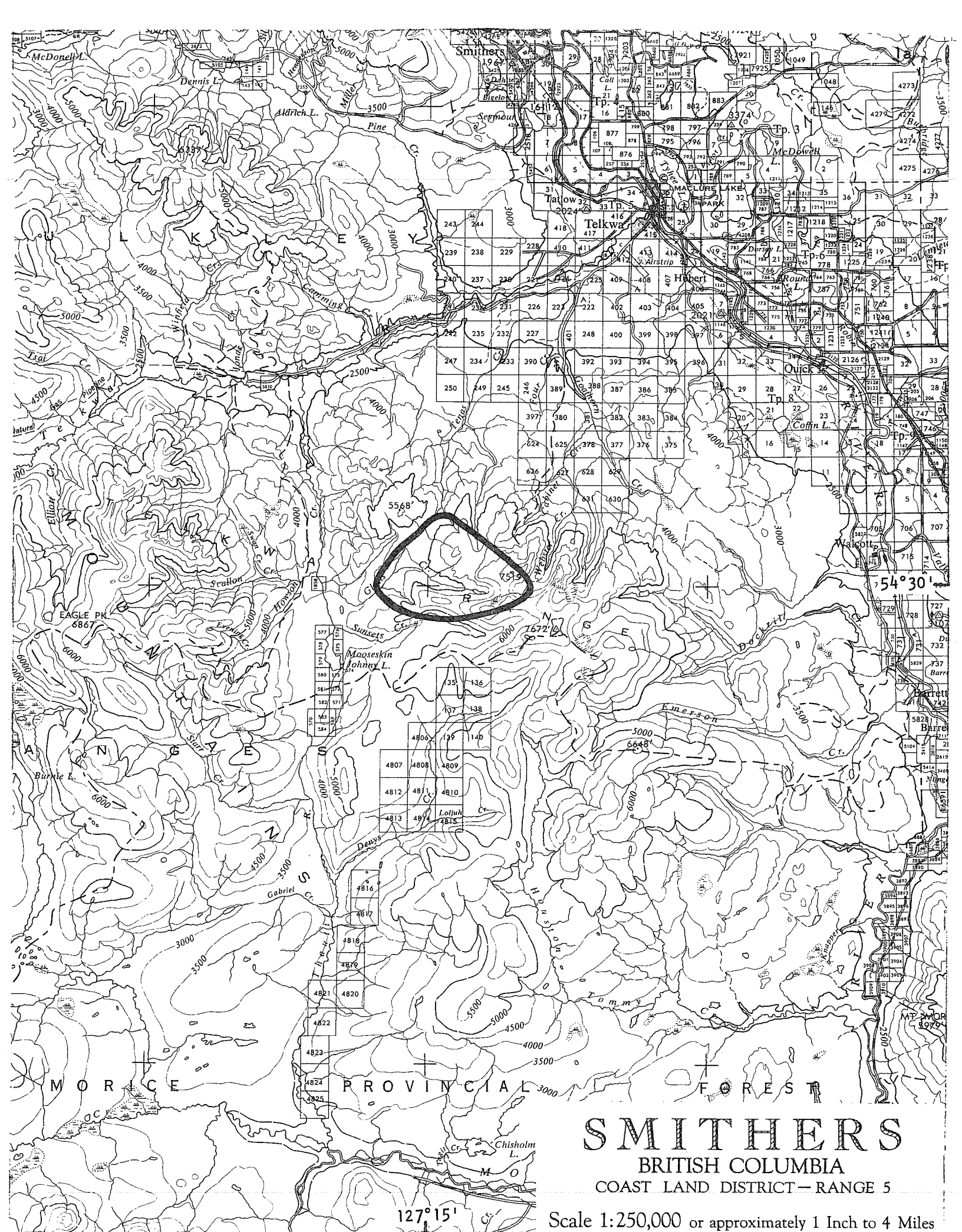
93 L/11 EAST HALF
93 L/11 WEST HALF

(93 L/6 not yet available;
hand-drawn)



127°15'

54°30'



MORICE PROVINCIAL FOREST

SMITHERS

BRITISH COLUMBIA

COAST LAND DISTRICT—RANGE 5

127° 15' Scale 1:250,000 or approximately 1 Inch to 4 Miles

3. Location of IBP Area*

- 1. Latitude 54 ° 29' - 32.3' N Longitude 127 ° 09.2 - 17.7' 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) 7792 acres
- 2. Altitude (state units of measurement) Maximum 7519' (2292 m)
- Minimum 4100' (1250 m)

6. Climate

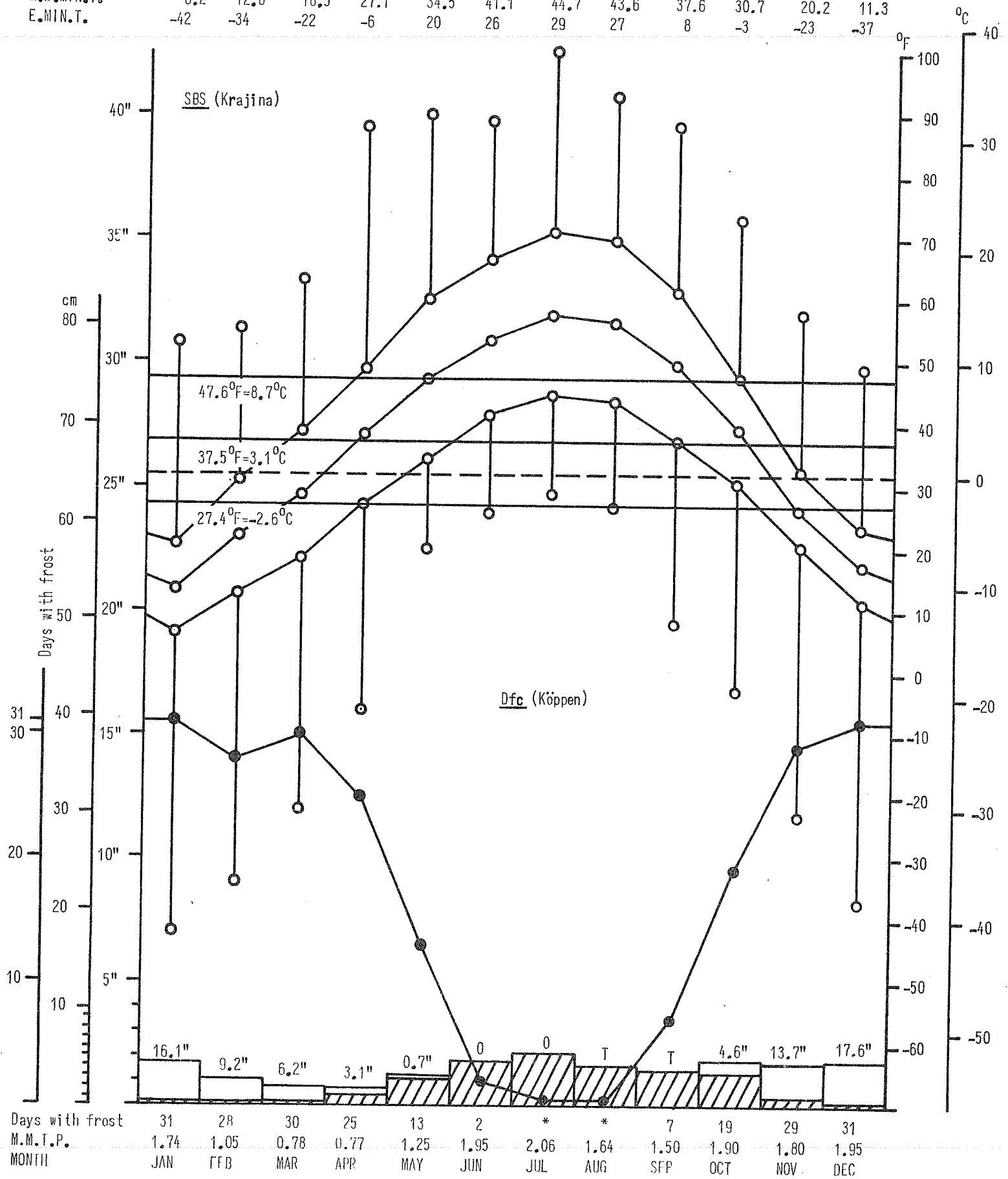
Nearest climatological station :

- 1. Name Telkwa
 - 2. Climatological station on IBP Area*? Yes No X
 - 3. If (2) not, distance from edge of IBP Area* (state units) 14 mi.
 - 4. Direction from IBP Area* NNE
 - 5. Additional data sheet attached? Yes X No
- Telkwa

TELKWA, 54°39'N, 126°50'W, 2240' ASL. Record: 25-46 years.

Months above 50°F: 3, below 32°F: 5, A.M.T.P.: 18.39", A.M.S.F.: 71.2", snow $\frac{1}{2}$ A.M.T.P.: 38.71, days with frost, yearly: 215.

E.MAX.T.	53	55	63	88	90	89	100	93	88	73	58	49
M.D.MAX.T.	20.9	31.2	39.0	48.9	60.0	66.2	70.4	69.7	61.6	47.6	32.3	23.8
M.D.T.	13.6	22.0	28.8	38.1	47.3	53.7	57.6	56.7	49.6	39.2	26.2	17.6
M.D.MIN.T.	6.2	12.8	18.5	27.1	34.5	41.1	44.7	43.6	37.6	30.7	20.2	11.3
E.MIN.T.	-42	-34	-22	-6	20	26	29	27	8	-3	-23	-37



7. Vegetation and Soil

1

Vegetation

Biogeoclimatic Zones:

ESSFb:

(below 5550')

AT:
(above 5600')

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		<u>Abies lasiocarpa</u> - <u>Pinus albicaulis</u> - <u>Picea glauca</u> - <u>Arctostaphylos uva-ursi</u> krummholz assoc.	
2	1	B	2	1	a	<u>Linnaeo (borealis)</u> - <u>Betuletum glandulosae</u>	
3	1	C	1	2	c	<u>Empetretum hermaphroditi</u>	
4	3	C	1	3		<u>Caricetum phaeocephalae</u>	
5	1	M	2	1		<u>Potentillo (diversifoliae)</u> - <u>Festucetum altaicae</u>	
6	1	G	2	1		<u>Salicetum nivalis</u>	
7	1	G	2	1		<u>Salicetum arcticae</u>	
8	1	G	2	1		<u>Salicetum reticulatae</u>	
9	2	H	2	1		<u>Poetum arcticae</u>	
10	3	C	1	3		<u>Saxifrago (tricuspidatae)</u> - <u>Potentilletum uniflorae</u>	
11	1	N	2	1		<u>Calthetum leptosepalae</u>	
12	1	H	1	3		<u>Cassiopetum mertensianae</u>	
13	1	C	1	2	c	<u>Phyllodocetum glanduliflorae-empetriformis</u>	
14							
15							
16							
17							
18							
19							

Please give information about further communities on a separate sheet.

Telkwa Range and Glacis Creek valleyPartial list of plants

Vascular plants: Abies lasiocarpa
Antennaria friesiana (=A. alpina)
Antennaria monocephala
Arctostaphylos uva-ursi
Artemisia arctica
Aconitum delphinipholium
Betula glandulosa
Caltha leptosepala
Campanula lasiocarpa
Carex albo-nigra
Carex capitata
Carex lachenalii
Carex nardina
Carex phaeocephala
Cassiope mertensiana
Cerastium beeringianum
Crepis nana
Draba nivalis
Empetrum hermaphroditum
Epilobium angustifolium
Epilobium latifolium
Equisetum variegatum
Festuca altaica
Festuca brachyphylla
Gentiana glauca
Hierochloe alpina
Juniperus nana
? Kobresia myosuroides
Linnaea borealis
Lloydia serotina
Luetkea pectinata
Luzula spicata
Minuartia rubella
Myosotis alpestris
Oxytropis campestris
Pedicularis kanei
Pedicularis langsдорфii
Phyllodoce empetriformis
Phyllodoce glanduliflora
Picea engelmannii
Picea glauca
Pinus albicaulis
Poa arctica
Poa paucispicula
Polemonium pulcherrimum
Polygonum viviparum
Potentilla diversifolia
Potentilla nivea
Potentilla uniflora
Rumex acetosa ssp. alpestris
Salix arctica
Salix barclayi
Salix nivalis

Salix reticulata
Saxifraga caespitosa
Saxifraga tricuspidata
Sedum lanceolatum
Sedum roseum
Senecio cymbalarioides
Sibbaldia procumbens
Silene acaulis
Solidago multiradiata
Stellaria laeta
Stellaria monantha
Taraxacum ceratophorum

Bryophytes and lichens:

Cetraria cucullata
Cetraria islandica
Cetraria nivalis
Cladina alpestris
Cladina mitis
Cladina rangiferina
Cladonia bellidiflora
Cladonia coccifera
Cladonia gracilis
Cladonia uncialis
Dicranum muehlenbeckii
Hylocomium alaskanum
Peltigera canina
Peltigera polydactyla
Peltigera venosa
Polytrichum strictum
Rhacomitrium lanuginosum
Rhytidium rugosum
Sphagnum capillaceum

7.
(cont.)

2

Soil

Community Reference Number	Soil type	Other notes
1	ABC F ₅	Brunisol
2	ABC F ₅	Brunisol
3	ABC F ₅	Brunisol
4	AC F ₃	Ranker
5	ABC F ₅	Brunisol
6	AC F ₁	Pararendzina
7	AC F ₃	Ranker
8	AC F ₁	Pararendzina
9	AC F ₃	Ranker (Brown)
10	AC I ₂	Scree Regosol
11	AGC P ₁ /P ₂	Gleysol (Gleyed Regosol)
12	AC F ₃	Ranker
13	AC F ₃	Ranker
14		
15		
16		
17		
18		
19		
20		

9. Landscape

1. General Landscape (give brief description) An Alpland, dissected by a stream (Glacis Lake) and carved by a glacier in the glaciation time.

2. Relief Type

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

3. Special landscape features (list) old moraines which are accumulated on rather steep slope exposed to the north and probably still in a slight movement (solifluction?)

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		
Running	X	X

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps				
Ponds				
Lakes	X		X	

3. Running Water small lake in the AT zone

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

Glacis Creek

4. Special freshwater features Cascades of Glacis Creek

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		X		
Aves	X							X	X			
Reptilia												
Amphibia	?											
Pisces	?											
Insecta	X							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			X	X					
grass		X			X	X					
Gymnospermae		X	X								
Pteridophyta		?									
Bryophyta	X	X			X	X					
Lichens and Algae	X	X			X	X					

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

Sphagnum capillaceum in the AT zone (5550'), Pinus albicaulis at its northern occurrence, Antennaria monocephala,

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15. Exceptional Interest of IBP Area*

Outstanding Alpland with volcanic rocks (basaltic), nutritionally rich and producing rich alpine and subalpine vegetation.

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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 No X

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. 93 L, 93 L/11 E&W and 93 L/6

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 area, when protected, should remain open to the hiking tourists. However, collection of plants should be permitted only to those who will obtain a special permission for an observational study.

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