

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.)

Hautête Lake, North of Babine Lake

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

SBS, ESSFb

4. Approximate total acreage.

4,000 acres (about 650 acres are covered by Hautête Lake)

5. Purpose of the reserve.

This is a pristine area of the subboreal forest zone with all major ecosystematic units, characteristic for the zone.

- (a) Primary (state acreage)

A: 3,350 acres of land

- (b) Others if any (state acreage)

B: 650 acres of water (Hautête Lake) (this lake should become opened for sport-fishing, providing that the population of fish will remain high).

- (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.

*Abies lasiocarpa, Betula papyrifera, Picea engelmannii, P. glauca, P. mariana, Pinus contorta, Populus tremuloides, P. trichocarpa,*  
(on some sites timber volumes are moderate or even better than average as it should be expected in the subboreal spruce zone).

Signature *V.J. Krajina Jim Pojar*  
V.J. Krajina, Jim Pojar,

I.B.P. Surveyor  
Peter Small, C. Parsons

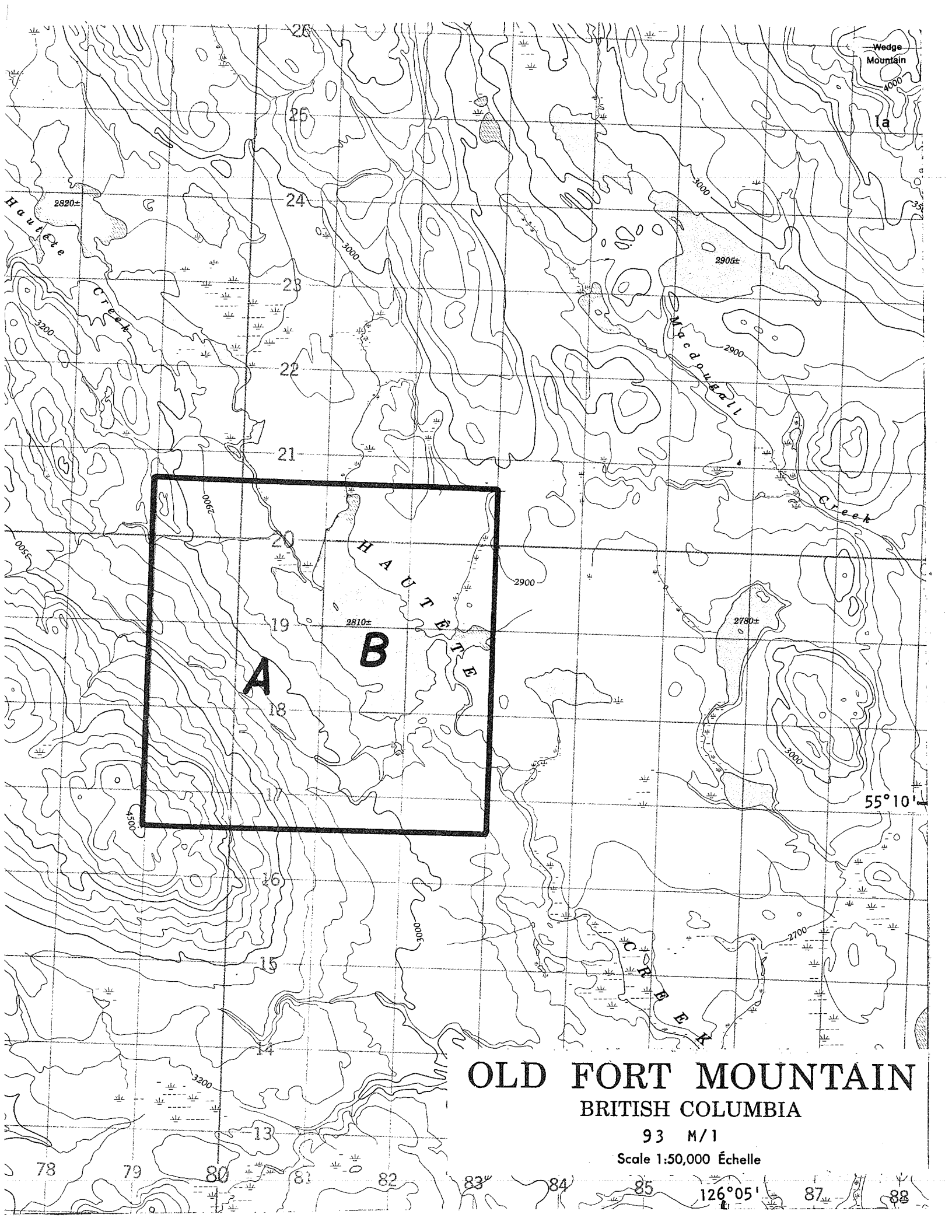
INTERNATIONAL BIOLOGICAL PROGRAMME

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						
1.	<p>1. Name of surveyor ..... V.J. Krajina*, Jim Pojar*, Peter Small**, C. Parsons*</p> <p>2. Address of surveyor ..... *Department of Botany, University of British Columbia, Vancouver, B.C. ..... **Inventory Division, B.C. Forest Service, Victoria, B.C.</p> <p>3. Check Sheet completed (a) on site ..... X ..... (b) from records ..... X</p> <p>4. Date Check Sheet completed ..... November 1, 1974</p>							For Data Centre Use only
2.	<p>1. Name of IBP Area ..... Hautête Lake, North of Babine Lake</p> <p>2. Name of IBP Subdivision (or serial letter) ..... SBS , ESSFb</p> <p>3. Map of IBP Area* showing boundaries attached? Yes ..... X ..... No .....</p> <p>4. Sketch map of IBP Area*. Please mark direction of north, the scale and grid numbers where applicable.</p> <div style="border: 1px solid black; width: 60%; margin: 10px auto; height: 250px;"></div>							
		* For " IBP Area ", read IBP Area and/or IBP Subdivision.						



Wedge Mountain

4000

2820±

24

23

22

21

20

19

18

16

15

13

78

79

80

81

82

83

84

85

126°05'

87

88

55°10'

# OLD FORT MOUNTAIN

## BRITISH COLUMBIA

93 M/1

Scale 1:50,000 Échelle

3. Location of IBP Area\*

1. Latitude 55 ° 09.7-11' N Longitude 126 ° 07.3-11.5' W  
 2. Country Canada  
 State or Province British Columbia County (Babine) 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) 3,350 acres of land and 650 acres of lake  
 2. Altitude (state units of measurement) Maximum 4500' (1370 m)  
 Minimum 2800' (850 m)

6. Climate

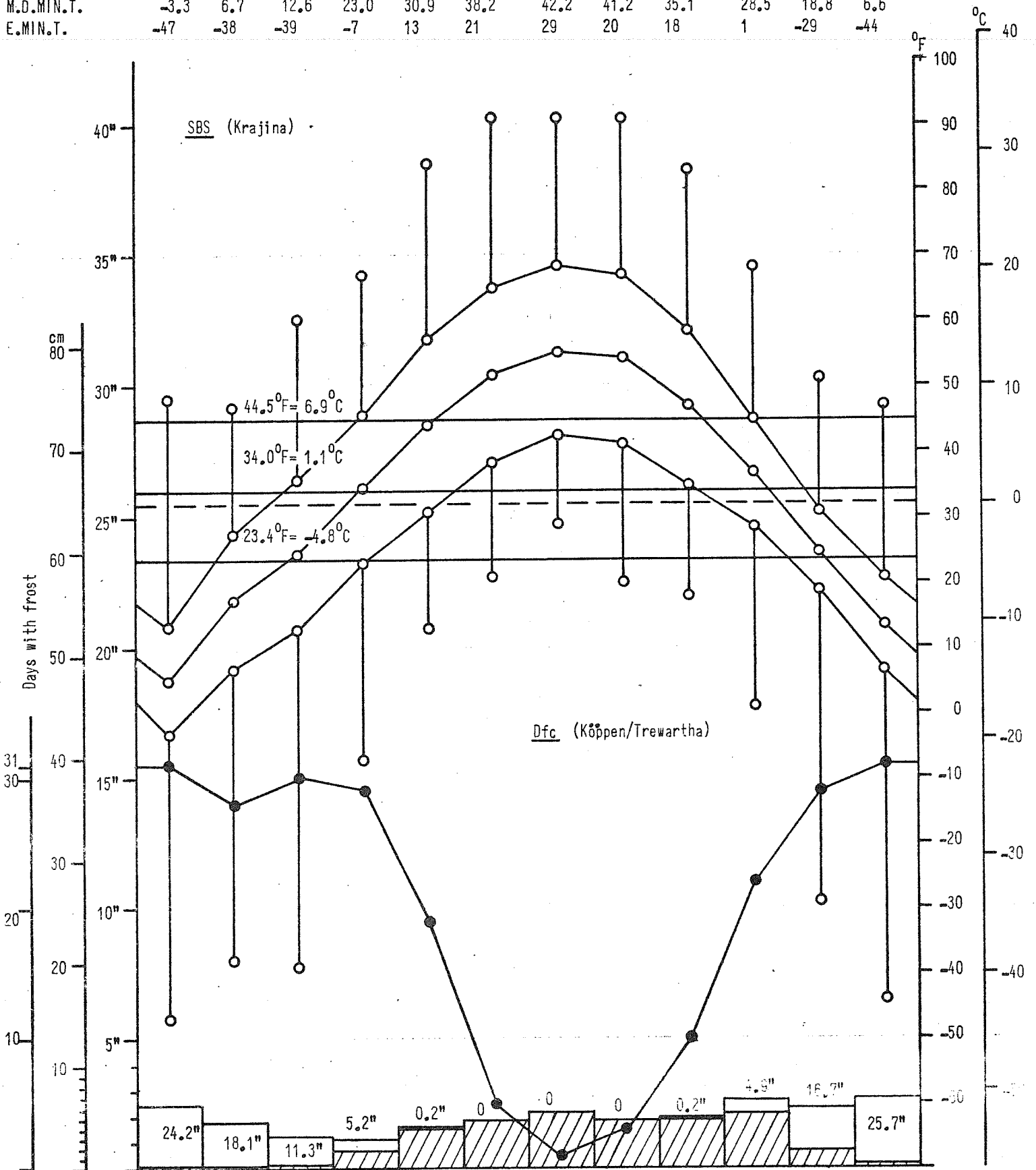
Nearest climatological station :

1. Name Babine (Lake)  
 2. Climatological station on IBP Area\*? Yes No X  
 3. If (2) not, distance from edge of IBP Area\* (state units) 21 miles  
 4. Direction from IBP Area\* WNW  
 5. Additional data sheet attached? Yes X No  
 Babine Lake

BABINE LAKE 55°19'N, 126°37'W, 2360' ASL. Record: 20-22 years.

Months above 50°F: 3, below 32°F: 5, A.M.T.P. 23.65", A.M.S.F. 106.5", snow % A.M.T.P.: 45.03, days with frost, yearly: 238

E.MAX.T.	48	47	60	67	84	91	91	91	83	68	51	47
M.D.MAX.T.	13.5	27.7	35.8	45.7	57.2	65.1	68.3	66.9	58.4	44.8	30.8	20.3
M.D.T.	5.1	17.2	24.2	34.4	44.1	51.7	55.2	54.1	46.8	36.7	24.8	13.5
M.D.MIN.T.	-3.3	6.7	12.6	23.0	30.9	38.2	42.2	41.2	35.1	28.5	18.8	6.6
E.MIN.T.	-47	-38	-39	-7	13	21	29	20	18	1	-29	-44



Days with frost	31	28	30	29	19	5	1	3	10	22	29	31
M.M.T.P.	2.49	1.85	1.23	1.16	1.56	1.80	2.12	1.88	1.97	2.59	2.35	2.65
Months	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

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	1	A	1	7	a	Pleurozio (schreberi) - Cladonio (gracilllis) - Peltigero (aphthosae) - Pino (contortae) - Piceetum glaucae - marianae	
	1	A	1	7	a	Pleurozio (schreberi) - Hylocomio (splendentis) - Vaccinio (caespitosi - membranacei) - Pino (contortae) - Piceetum glaucae	
3	1	A	1	7	a	Hylocomio (splendentis) - Ptilio (cristae-castrensis) - Corno (canadensis) - Gymnocarpio (dryopteridis) - Piceo (glaucae - engelmannii) - Abietetum lasiocarpae	
	1	A	1/2	7/1	a/-	Plagiomnio (ciliaris) - Aralio (nudicaulis) - Oplopanaco (horridi) - Corno (stoloniferae) - Alno (sinuatae) - Populo (tremuloidis) - Piceo (glaucae) - Abietetum lasiocarpae	
5	1	A	1	7	a	Plagiomnio (rugici) - Equiseto (arvensis - sylvatici) - Salico (drummondianae) - Alno (tenuifoliae) - Piceo (glaucae x engelmannii) - Abietetum lasiocarpae	
	1	A	1	7	a	Aulacomnio (palustris) - Sphagno (recurvi - subnitentis) - Pino (contortae) - Piceetum marianae	
7	1	B	1	3	d	Sphagno (capillacei - fusci) - Betulo (glandulosae) - Pino (contortae) - Piceetum marianae	
8	1	A	1	7	a	Pleurozio (schreberi) - Nephromato (arctici) - Vaccinio (caespitosi) - Pino (contortae) - Piceetum engelmannii	
	1	A	1	7	a	Hylocomio (splendentis) - Ptilio (cristae-castrensis) - Corno (canadensis) - Clintonio (uniflorae) - Rubo (pedati) - Piceo (engelmannii) - Abietetum lasiocarpae	
10	1	A	1	7	a	Rhizomnio (pseudopunctati) - Heracleo (lanati) - Piceo (glaucae x engelmannii) - Abietetum lasiocarpae	
11							
12							
13							

Please give information about further communities on a separate sheet.

Biogeo-climatic zones:

SBS:

ESSFb:

Hautête Lake, North of Babine Lake - partial list of plants

Vascular plants: *Abies lasiocarpa*  
*Actaea rubra*  
*Alnus sinuata*  
*Alnus tenuifolia*  
*Aquilegia formosa*  
*Aralia nudicaulis*  
*Arnica cordifolia*  
*Aster modestus*  
*Betula glandulosa*  
*Betula papyrifera*  
*Calamagrostis canadensis*  
*Carex laeviculmis*  
*Clintonia uniflora*  
*Cornus canadensis*  
*Cornus stolonifera*  
*Epilobium angustifolium*  
*Equisetum arvense*  
*Equisetum sylvaticum*  
*Festuca occidentalis*  
*Galium boreale*  
*Galium triflorum*  
*Geocaulon lividum*  
*Goodyera oblongifolia*  
*Gymnocarpium dryopteris*  
*Habenaria obtusata*  
*Heracleum lanatum*  
*Hieracium albiflorum*  
*Linnaea borealis*  
*Listera cordata*  
*Ionicera involucrata*  
*Lycopodium annotinum*  
*Lycopodium obscurum (!)*  
*Oplopanax horridus*  
*Osmorhiza chilensis*  
*Petasites palmatus*  
*Picea engelmannii*  
*Picea glauca*  
*Picea mariana*  
*Pinus contorta*  
*Populus tremuloides*  
*Populus trichocarpa*  
*Pyrola virens*  
*Ribes lacustre*  
*Rosa acicularis*  
*Rubus parviflorus*  
*Rubus pedatus*  
*Rubus pubescens*  
*Salix drummondiana*  
*Salix scouleriana*  
*Senecio triangularis*  
*Shepherdia canadensis*  
*Smilacina racemosa*  
*Sorbus scopulina*  
*Spiraea menziesii*

Vascular plants: *Streptopus amplexifolius*  
*Tiarella trifoliata*  
*Trientalis latifolia*  
*Vaccinium caespitosum*  
*Vaccinium membranaceum*  
*Viburnum edule*  
*Viola orbiculata*

Thallo-phytes: *Barbilophozia* spp.  
*Cladonia gracilis*  
*Hylocomium splendens*  
*Icmadophila ericetorum*  
*Plagiomnium ciliare*  
*Plagiomnium rugicum*  
*Pleurozium schreberi*  
*Polyporus sulphureus*  
*Ptilium crista-castrensis*  
*Nephroma arcticum*  
*Peltigera apthosa*  
*Rhizomnium pseudopunctatum*  
*Sphagnum capillaceum*  
*Sphagnum recurvum (=S. fallax)*  
*Sphagnum subnitens*  
*Sphagnum fuscum*



7.  
(cont.)

2

Soil

Community Reference Number	Soil type	Other notes	
SBS	1	ABC F <sub>5</sub>	Brunisol
	2	ABC F <sub>5</sub>	Dystric Brunisol (→ Mini Podzol)
	3	ABC F <sub>5</sub>	Gray-Brown Wooded Luvisol
	4	ABC/AGC F <sub>5</sub> /P <sub>2</sub>	Gleyed Sombric Brunisol
	5	ABC/AGC F <sub>5</sub> /P <sub>2</sub>	Strongly Gleyed Dystric Brunisol
	6	A O	Low Moor Fen
	7	A O	High Moor Peat Bog
ESSFb	8	ABC F <sub>5</sub>	Mini Podzol
	9	ABC F <sub>5</sub>	Humo-Ferric Podzol
	10	ABC/AGC F <sub>5</sub> /P <sub>2</sub>	Gleyed Brunisol
	11		
	12		
	13		
	14		
	15		
	16		
	17		
	18		
	19		
	20		



9. Landscape

1. General Landscape (give brief description) Gently dissected and well forested hill dominating west of a lake.

2. Relief Type

	Flat	Undulating (0)-200 m.	Hilly 200-1000 m.	Mountainous > 1000 m.	%
Sharply dissected					
Gently dissected			70	30	100
Incised					
Skeletonised					
%			70	30	100%

3. Special landscape features (list) Lake (moderately large) under a well forested hill.

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) .....

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	
Running		

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps	X		X	
Ponds				
Lakes	X			

3. Running Water

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

Hautête Creek

4. Special freshwater features ..... a lake, characteristic of the subboreal spruce zone

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   
 Babine Lake

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

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

Frequent: black bear, beaver, grizzly, bald eagles, moose  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....

4. Flora

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

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

.....  
 .....  
 .....

15. Exceptional Interest of IBP Area\*

.....  
 This area is probably the best for conservation of the SBS and ESSFB  
 .....  
 in the Babine Lake area. Most of other areas were either logged  
 .....  
 or affected by fire and changed either to the lodgepole pine stands  
 .....  
 or aspen groves. Therefore, the conservation of this area becomes  
 .....  
 imperative.  
 .....

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.

List attached? Yes ..... No ..... 93 M/1

3. Aerial photographs for the IBP Area available?

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

19. Other Relevant Information

There is a fear in our mind, that this area (probably the last in Babine Lake surroundings), which is well representative of climax forest stands, might be a subject of exploitation by logging very soon and, therefore, to conserve it by an ecological reserve is very urgent.

*V.J. Krajina Jim Pojar*  
 Signed .....  
 (Surveyor)

Peter Small, Calvin Parsons