

84

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.)  
Aleza Lake sub-boreal forest, ca. 2 miles S.W. of the settlement of Aleza Lake
  
3. Indicate the biogeoclimatic zone of which the reserve is representative.  
SBS
  
4. Approximate total acreage.  
700 acres
  
5. Purpose of the reserve.  
Conservation of a representative sample of sub-boreal forest within the "Big Bend" of the Fraser River and in a close proximity of the IWH zone.
  - (a) Primary (state acreage)  
700 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.

Picea glauca  
Picea engelmannii  
Abies lasiocarpa  
Pseudotsuga menziesii  
Betula papyrifera  
Tsuga heterophylla (occasional)  
Pinus contorta  
Picea mariana  
Populus tremuloides

Signature J. Pojar, C. Parsons,  
I.B.P. Surveyor

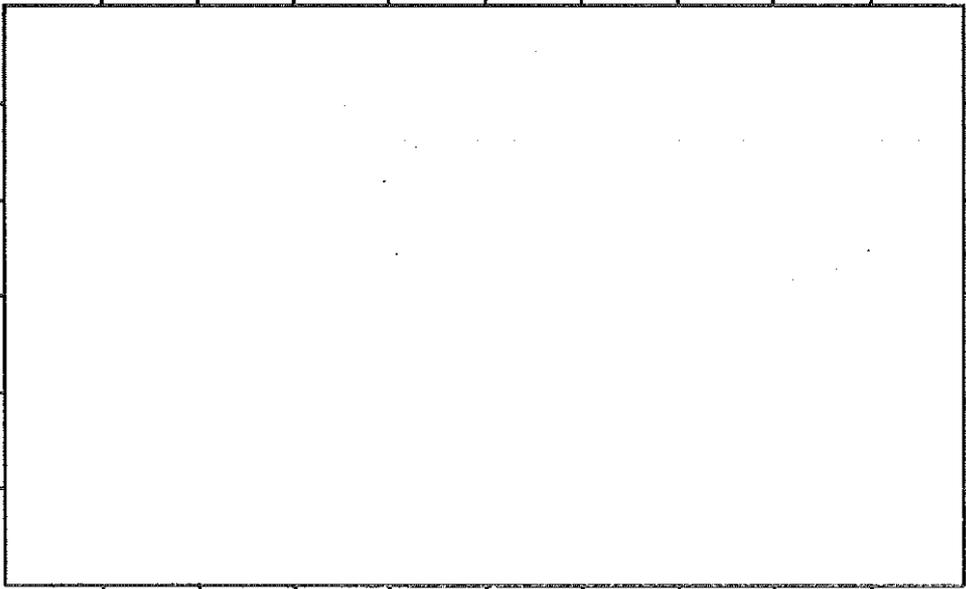
C. Steneker, D. Araki, V.J. Krajina

INTERNATIONAL BIOLOGICAL PROGRAMME

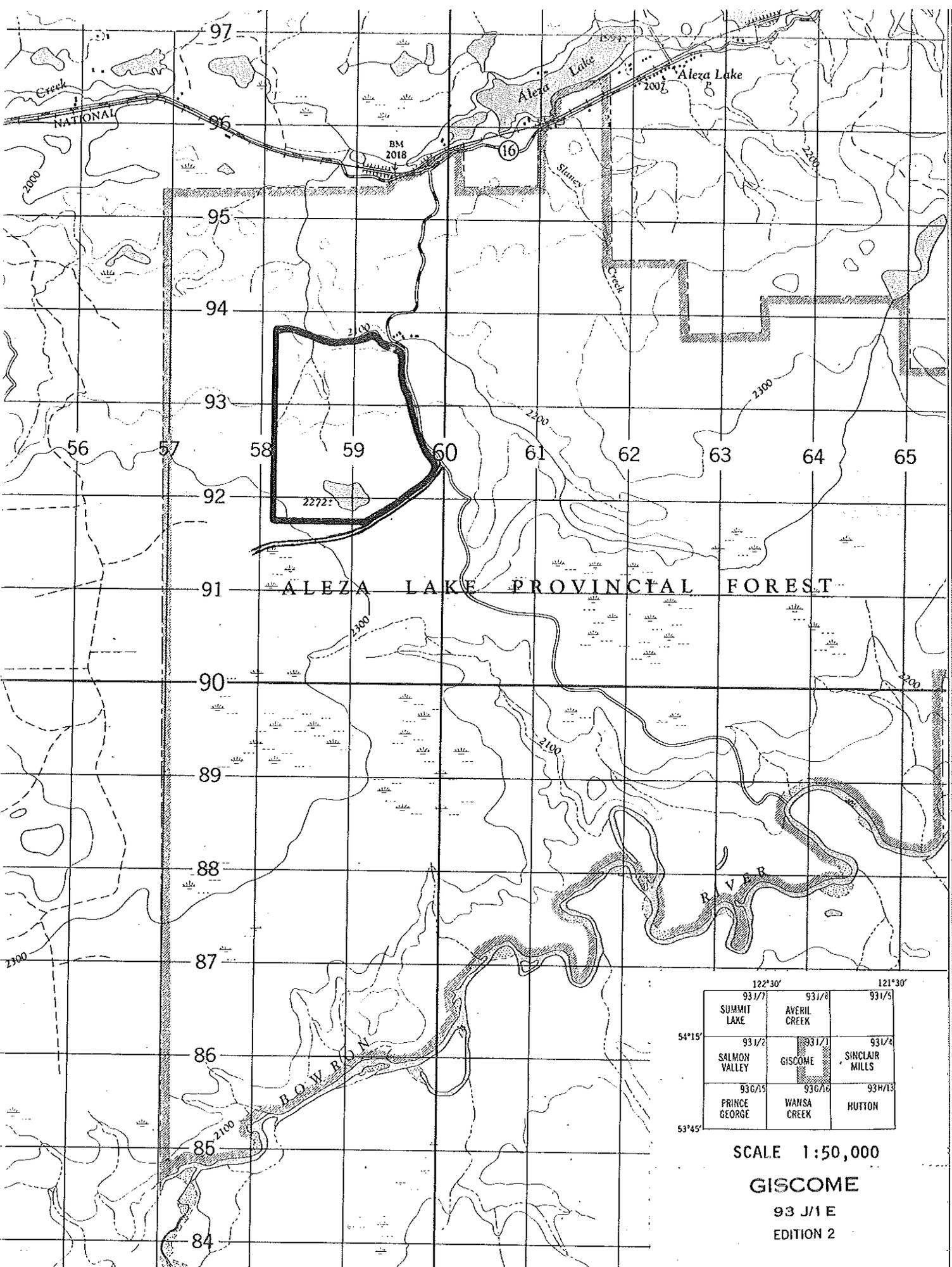
SECTION CT : CONSERVATION OF TERRESTRIAL BIOLOGICAL COMMUNITIES

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

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

		Serial Number						
1.	1. Name of surveyor	*J. Pojar, *C. Parsons, **C. Stenaker, ***D. Anaki, *V. J. Krajina					For Data Centre Use only	
	2. Address of surveyor	*Dept. of Botany, Univ. of British Columbia, Vancouver, **B.C. Forest Service, Prince George, B.C. ***Northwood Pulp Co., Prince George, B.C.						
3. Check Sheet completed (a) on site	..... (b) from records .....							
4. Date Check Sheet completed	.....							
2.	1. Name of IBP Area	..Aleza Lake sub-boreal forest.....						
	2. Name of IBP Subdivision (or serial letter)	.....SBS.....						
	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.



	122°30'	121°30'	
93 1/7	93 1/8	93 1/5	
SUMMIT LAKE	AVERIL CREEK		
93 1/2	93 1/7	93 1/4	
SALMON VALLEY	GISCOME	SINCLAIR MILLS	
93 6/5	93 6/8	93 4/3	
PRINCE GEORGE	WANSA CREEK	HUTTON	
54°15'			
53°45'			

SCALE 1:50,000

GISCOME

93 J/1 E

EDITION 2

97  
1a  
96  
95  
94  
05'  
92  
91  
90  
89  
88  
87  
86  
85  
84  
54°00'

For Data Centre Use only

3. Location of IBP Area\*

- 1. Latitude.....54.....° 04.3-04.5' N Longitude...122.....° 04.8-05.5' W
- 2. Country ...Canada.....
- State or Province British Columbia..... County Prince George.....
- (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  
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)	this part is within (C) 40-chain reserve	(D)

5. Characteristics of IBP Area\*

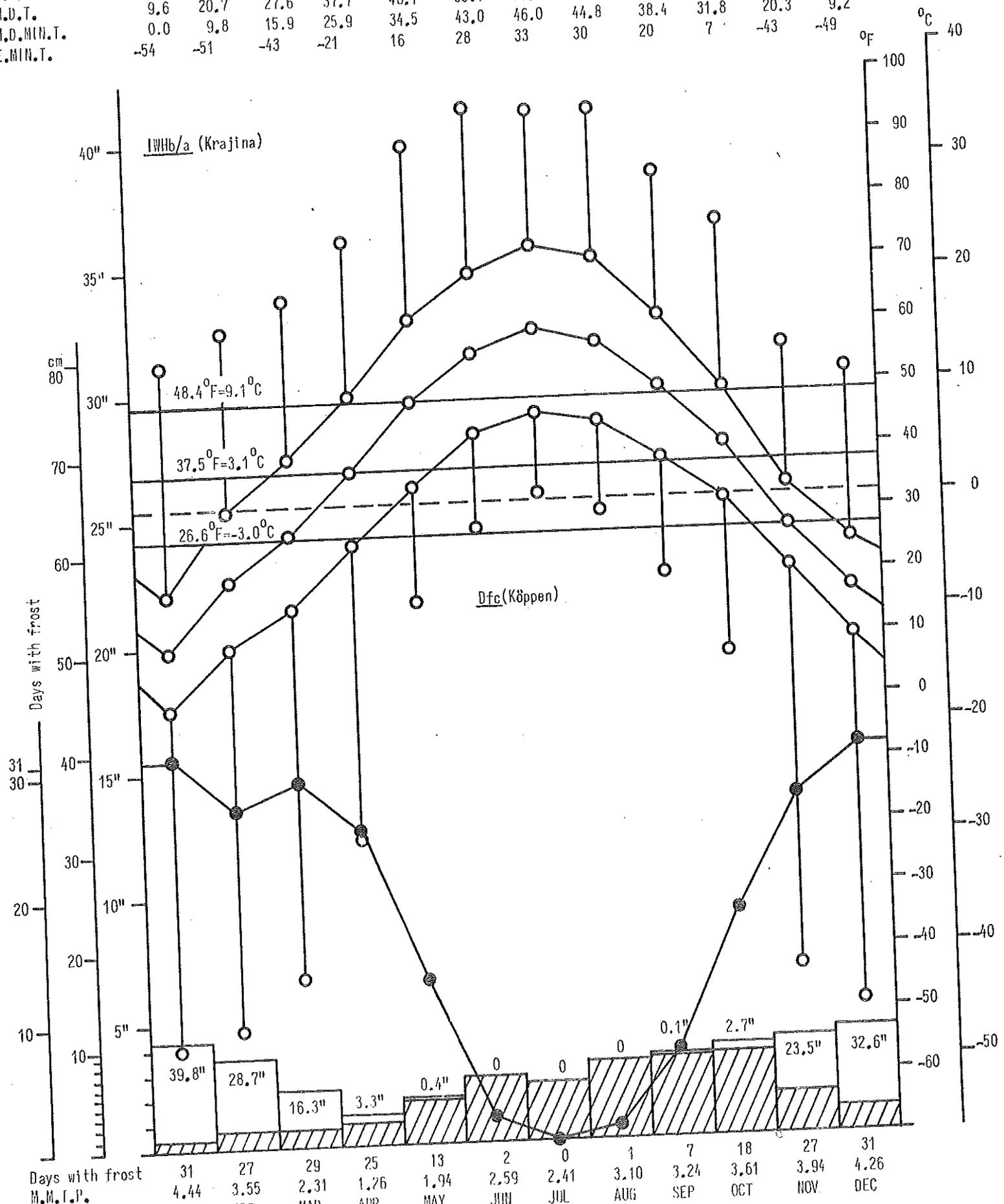
- 1. Surface area (state units of measurement) ..... 700 acres
  - 2. Altitude (state units of measurement) Maximum ..... 2280 ft. .... (695 m).....  
Minimum ..... 2050 ft. .... (625 m).....
- These low elevations are favorable for the SBS. Winter is more severe and summer is warmer here (in relation to the area of Report No. 218)

6. Climate

- Nearest climatological station :
- 1. Name ..... Aleza Lake.....
  - 2. Climatological station on IBP Area\*? Yes ..... No ...X...
  - 3. If (2) not, distance from edge of IBP Area\* (state units) ... 2 mi. ....
  - 4. Direction from IBP Area\* ..... N.E. ....
  - 5. Additional data sheet attached? Yes .X..... No .....
- Aleza Lake

**ALEZA LAKE** 54°07'N, 122°04'W, 2050' ASL. Record: 15-19 years, adjusted.  
 Months above 50°F: 3, below 32°F: 5, A.M.T.P. 36.65", A.W.S.F. 147.4", snow % A.M.T.P.: 40.21, days with frost, yearly: 211.

E.MAX.T.	55	60	65	74	89	95	94	94	84	76	56	52
M.D.MAX.T.	18.5	31.6	39.3	49.6	61.6	68.3	72.5	70.2	61.2	49.2	33.7	24.9
M.D.T.	9.6	20.7	27.6	37.7	48.1	55.7	59.3	57.3	49.8	40.5	27.0	17.1
M.D.MIN.T.	0.0	9.8	15.9	25.9	34.5	43.0	46.0	44.8	38.4	31.8	20.3	9.2
E.MIN.T.	-54	-51	-43	-21	16	28	33	30	20	7	-43	-49



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	<i>Picea glauca</i> - <i>Vaccinium membranaceum</i> - <i>Clintonia uniflora</i> - <i>Ptilium crista-castrensis</i> - <i>Pleurozium schreberi</i> assoc.	
2	1	A	1	7	a	<i>Picea glauca</i> - <i>Pinus contorta</i> - <i>Pseudotsuga menziesii</i> - <i>Populus tremuloides</i> - <i>Chimaphila umbellata</i> - <i>Goodyera oblongifolia</i> - <i>Pleurozium schreberi</i> assoc.	
3	1	A	1	7	a	<i>Picea glauca</i> - <i>Abies lasiocarpa</i> - <i>Gymnocarpium dryopteris</i> - <i>Ptilium crista-castrensis</i> assoc.	
4	1	A	1	7	a	<i>Picea glauca</i> - <i>Abies lasiocarpa</i> - <i>Oplopanax horridum</i> - <i>Gymnocarpium dryopteris</i> assoc.	
5	1	B	1	3	d	<i>Picea mariana</i> - <i>Betula pumila</i> - <i>Tomenthypnum nitens</i> - <i>Sphagnum</i> sp. assoc.	
6	1	M	2	2		<i>Caricetum rostratae</i>	
7	2	I	2	2		<i>Nupharetum polysepalae</i>	
8	1	M	2	2		<i>Carex aquatilis</i> - <i>Menyanthes trifoliata</i> assoc.	
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Aleza Lake sub-boreal forest

## Partial list of plants:

- trees: *Abies lasiocarpa*  
*Betula papyrifera*  
*Picea engelmannii*, *P. glauca*, *P. mariana*  
*Pinus contorta*  
*Populus tremuloides*  
*Pseudotsuga menziesii*  
*Tsuga heterophylla*
- shrubs: *Alnus sinuata*, *A. tenuifolia*  
*Amelanchier alnifolia*  
*Betula pumila*  
*Cornus stolonifera*  
*Corylus cornuta*  
*Lonicera involucrata*  
*Oplopanax horridus*  
*Ribes lacustre*  
*Rosa acicularis*  
*Rubus parviflorus*, *R. strigosus*  
*Salix pyrifolia*, *S. pedicellaris*  
*Sorbus scopulina*  
*Spiraea betulifolia*, *S. douglasii* var. *menziesii*  
*Vaccinium membranaceum*, *V. ovalifolium*  
*Viburnum edule*
- herb layer: *Actaea rubra*  
*Aralia nudicaulis*  
*Arnica cordifolia*  
*Aster conspicuus*  
*Athyrium filix-femina*  
*Calamagrostis canadensis*  
*Carex aquatilis*, *C. disperma*, *C. dioica*, *C. magellanica*, *C. rostrata*  
*Cinna latifolia*  
*Circaea alpina*  
*Clintonia uniflora*  
*Cornus canadensis*  
*Disporum hookeri*  
*Epilobium glandulosum*  
*Equisetum arvense*, *E. pratense*  
*Galium triflorum*  
*Geum macrophyllum*  
*Glyceria elata*  
*Goodyera oblongifolia*, *G. repens*  
*Gymnocarpium dryopteris*  
*Habenaria saccata*  
*Lathyrus ochroleucus*  
*Linnaea borealis*  
*Listera cordata*  
*Lycopodium annotinum*, *L. clavatum*, *L. obscurum*  
*Lysichitum americanum*  
*Menyanthes trifoliata*  
*Mitella nuda*

herb layer: *Oryzopsis asperifolia*  
(cont'd) *Osmorhiza chilensis*  
*Petasites frigidus*  
*Potentilla palustris*  
*Pyrola secunda*  
*Rubus pedatus*  
*Scheuchzeria palustris*  
*Senecio triangularis*  
*Smilacina racemosa*  
*Streptopus amplexifolius*, *S. roseus*, *S. streptopoides*  
*Thelypteris phegopteris*  
*Tiarella unifoliata*  
*Valeriana sitchensis*  
*Veratrum viride*  
*Viola glabella*

bryophytes: *Aulacomnium palustre*  
*Dicranum fuscescens*  
*Hylocomium splendens*  
*Mnium* spp.  
*Pleurozium schreberi*  
*Pohlia cruda*  
*Ptilium crista-castrensis*  
*Rhytidiadelphus triquetrus*  
*Sphagnum squarrosum*,  
*Sphagnum* spp.

lichens: *Alectoria sarmentosa*, *A. jubata*  
*Cladonia* spp.  
*Icmadophila ericetorum*  
*Lobaria pulmonaria*  
*Peltigera aphthosa*  
*P. canina*  
*Platismatia glauca*

7.  
(cont.)

2

Soil

Community Reference Number	Soil type	Other notes
1	ABC F <sub>5</sub>	Mini Podzol
2	ABC F <sub>5</sub>	Brunisol - Mini Podzol
3	ABC F <sub>5</sub>	Luvisol
4	AGC/ABC P <sub>1</sub> /F <sub>5</sub>	Gleyed Brunisol
5	A 0	Low Moor Bog
6	AGC P <sub>1/2</sub>	Gleysol
7	AGC P <sub>1/2</sub>	Subaqueous Gleysol
8	AGC P <sub>1/2</sub>	Gleysol
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		



9. Landscape

1. General Landscape (give brief description) Part of the gently dissected, forested lowlands between the Fraser and Bowron Rivers.

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2. Relief Type

	Flat	Undulating (0)-200 m.	Hilly 200-1000 m.	Mountainous > 1000 m.	%
Sharply dissected			20		20
Gently dissected			80		80
Incised					
Skeletonised					
%			100		100%

3. Special landscape features (list) .....

.....

.....

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"/>							

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	X
Standing	X	
Running	X	X

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps				
Ponds				
Lakes	X		X	

3. Running Water

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

4. Special freshwater features .....

.....

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

Aleza 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		
Aves		X						X	X	X		
Reptilia												
Amphibia		X						X		X		
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		X									
shrubs	X	X			X		X				
herbs	X	X			X		X				
grass		X			X						
Gymnospermae		X			X						
Pteridophyta		X			X		X				
Bryophyta	X	X			X		X				
Lichens and Algae		X			X		X				

5. Names of main threatened, endemic, relict and rare species  
Salix pyrifolia near western limit of range.

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 .....  
 .....

15. Exceptional Interest of IBP Area\*

..... This area is within the "Aleza Lake Provincial Forest"..... If.....  
 the whole "Aleza Lake Provincial Forest" becomes an Ecological  
 Reserve, further survey of other areas will be supplied then..

.....  
 .....

16. Significant Human Impact

1. General : None in entire IBP Area\* .....  
 None in part of IBP Area\* .....X.....  
 Impact on entire IBP Area\* .....

2. Particular

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

adjacent logging roads

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	X	
Fauna			X	X					X			
Non-living			X	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 J/1 East Half

3. Aerial photographs for the IBP Area available?

For whole area  For part of area  None

19. Other Relevant Information

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

C. Stenecker, D. Araki, V.J. Krajina

*V.J. Krajina*