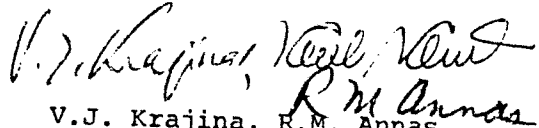


APPLICATION FOR ECOLOGICAL RESERVE

1. Legal description of the area (or general "Metes and bounds" description)
  
2. Geographical location (relate to nearest settlement, mountain, river, etc.)  
South of Ealue Lake, an unnamed mountain 5196' (1584 m)
  
3. Indicate the biogeoclimatic zone of which the reserve is representative.  
The uppermost parts of the BWBS and the interior subalpine (white spruce - subalpine fir - willow - birch) zone (SFWB) (=ESSFc)
4. Approximate total acreage.  
7,037 acres    2650 ha
5. Purpose of the reserve.  
To preserve a very exemplary area for the interior subalpine zone in this geographic region.
  - (a) Primary                    (state acreage)  
A: 4,574 acres /BWBS and the lower elevations of the SFWB (up to 4000')/
  - (b) Others if any    (state acreage)  
B: 2,463 acres /upper (willow - birch) subzone of the interior subalpine zone/
  - (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.

Most important trees are; white spruce, subalpine fir, black spruce, lodgepole pine, aspen and black cottonwood. They are forming forests of low productivity.

  
 V.J. Krajina, R.M. Annas  
 Signature K.Klinka, R.G. McMinn, K. Sumani  
 I.B.P. Surveyor

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

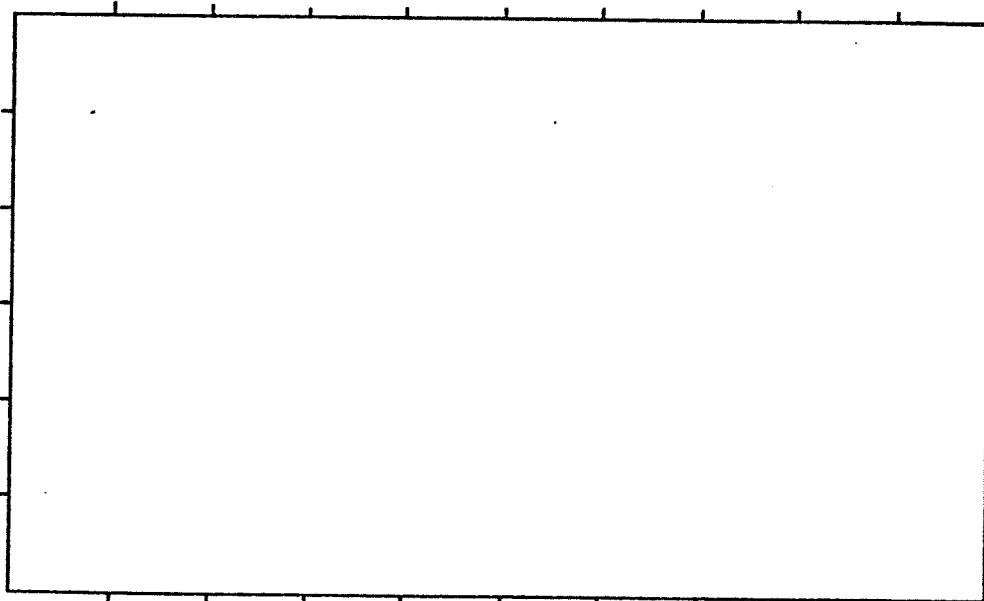
Serial Number

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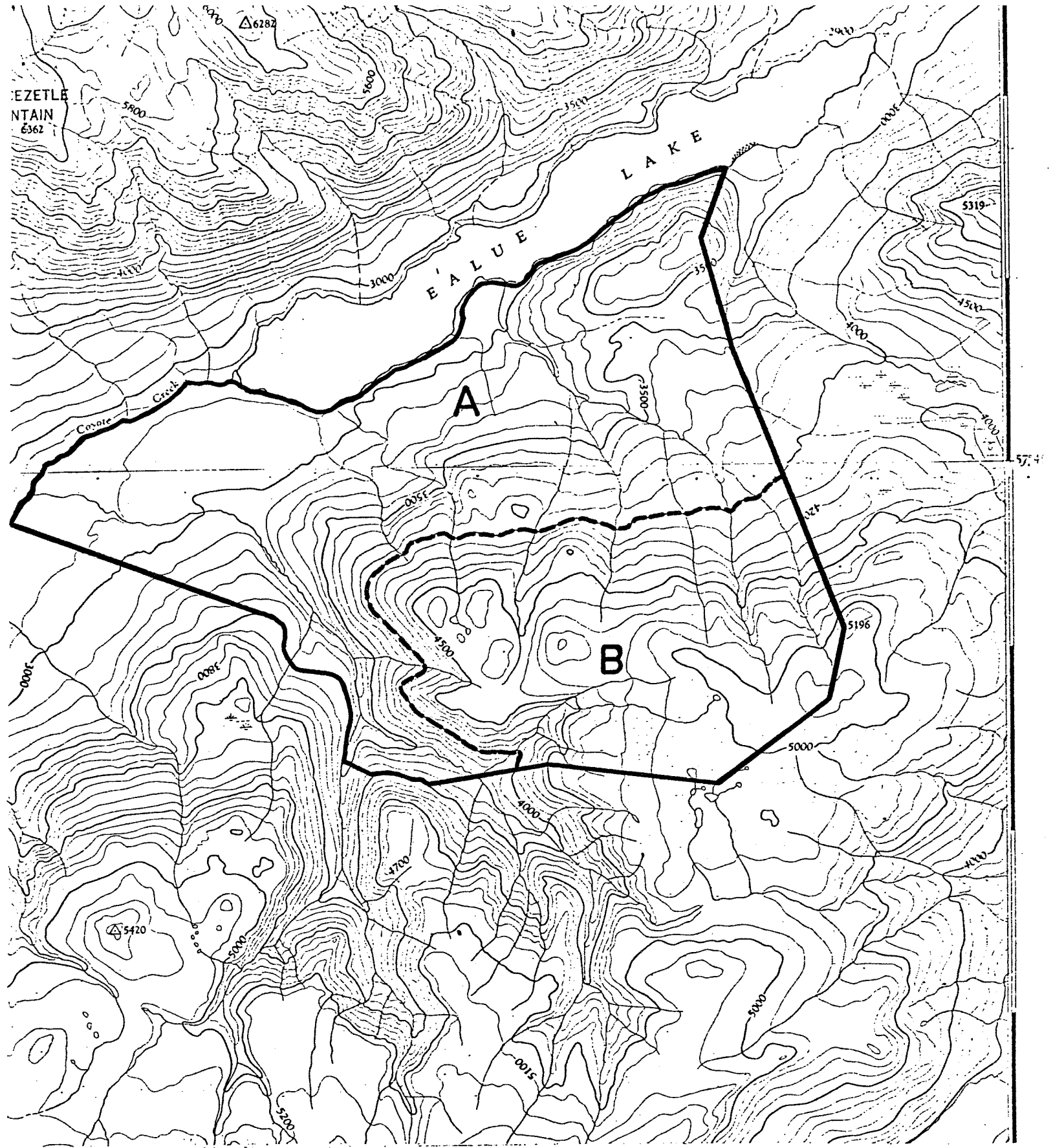
For Data Centre Use only

1. 1. Name of surveyor V.J. Krajina\*), R.M. Annas, K. Klinka, R.G. McMinn and Ken Sumanik
2. Address of surveyor .....  
 \*) Department of Botany  
 .....  
 University of British Columbia  
 .....  
 Vancouver, B.C., Canada
3. Check Sheet completed (a) on site .....X..... (b) from records ..X.....
4. Date Check Sheet completed ..... November 23, 1973 .....

2. 1. Name of IBP Area ..... South of Ealue Lake, an unnamed mountain, 5196' (1584 m) .....
2. Name of IBP Subdivision (or serial letter) ..... BWBS (the uppermost elevations of the zone) and mainly SPWB .....
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.



PANCH,  
E., 1960.

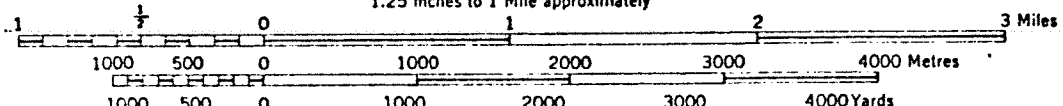
# KLUEA LAKE

CASSIAR DISTRICT

BRITISH COLUMBIA

SCALE 1:50,000

1.25 Inches to 1 Mile approximately



MAGNET  
AT  
Annus

3. Location of IBP Area\*

1. Latitude..... 57.° 42.3-46.7' N Longitude..... 129.° 47.5-55.1' W
2. Country ..... Canada
- State or Province ..... British Columbia County ..... Prince Rupert
- (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., 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) X

5. Characteristics of IBP Area\*

1. Surface area (state units of measurement) ..... 7037 acres (A:4574 acres; B:2463 acres)
2. Altitude (state units of measurement) Maximum ..... 5196' (1584 m)
- Minimum ..... 2850' (855 m)

6. Climate

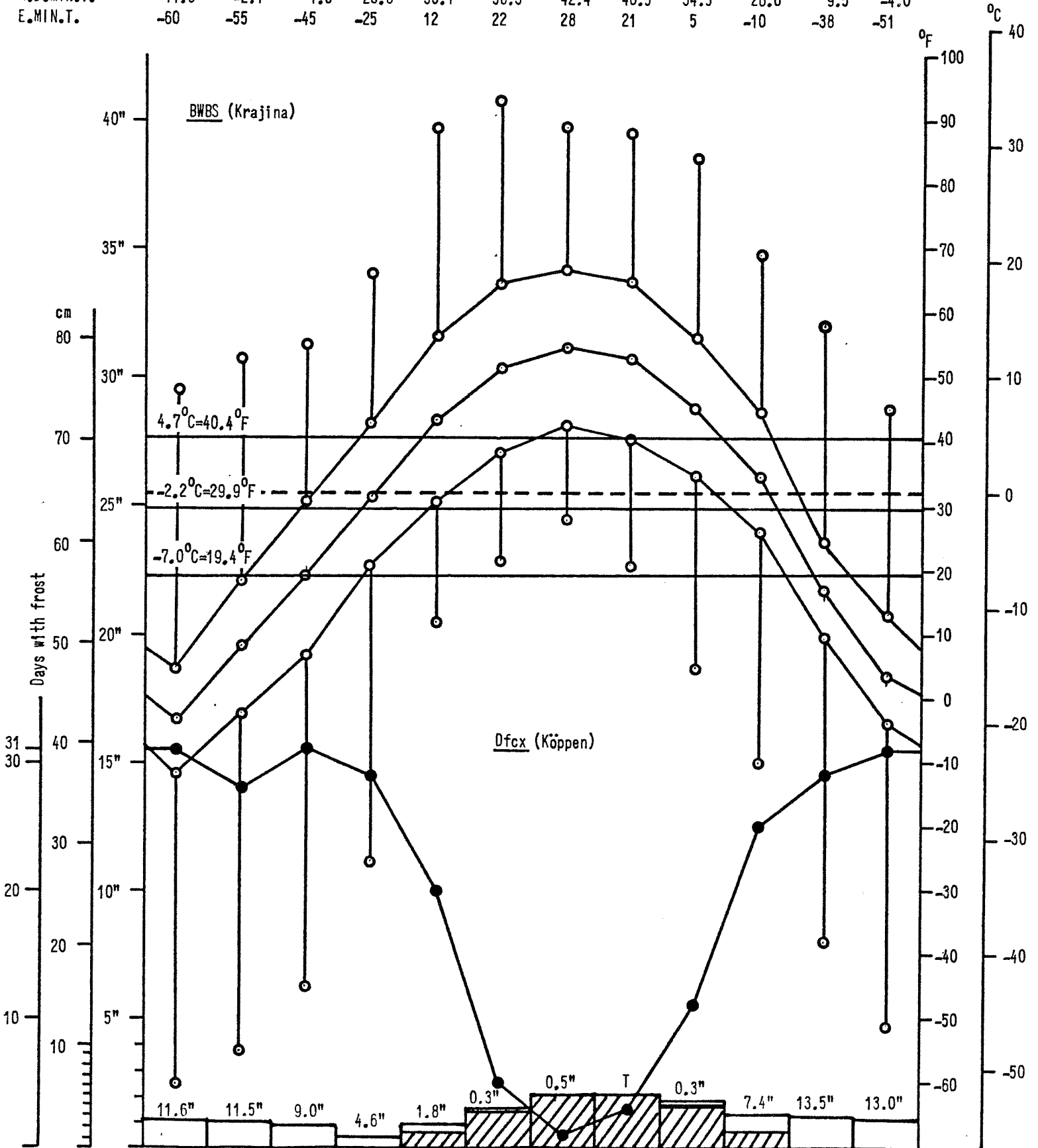
Nearest climatological station :

1. Name ..... Dease Lake; \*)Telegraph Creek
2. Climatological station on IBP Area\*? Yes ..... No ..... X
3. If (2) not, distance from edge of IBP Area\* (state units) ..... 48 mi.; \*)48 mi.
- North; \*)WWNW
4. Direction from IBP Area\* .....
5. Additional data sheet attached? Yes ..... X No .....

DEASE LAKE 58°25'N, 130°00'W, 2678' ASL. Record: 25-26 years.

Months above 50°F: 3, below 32°F: 6, A.M.T.P. 15.53", A.M.S.F. 73.5", snow % A.M.T.P.: 47.32, days with frost, yearly: 244.

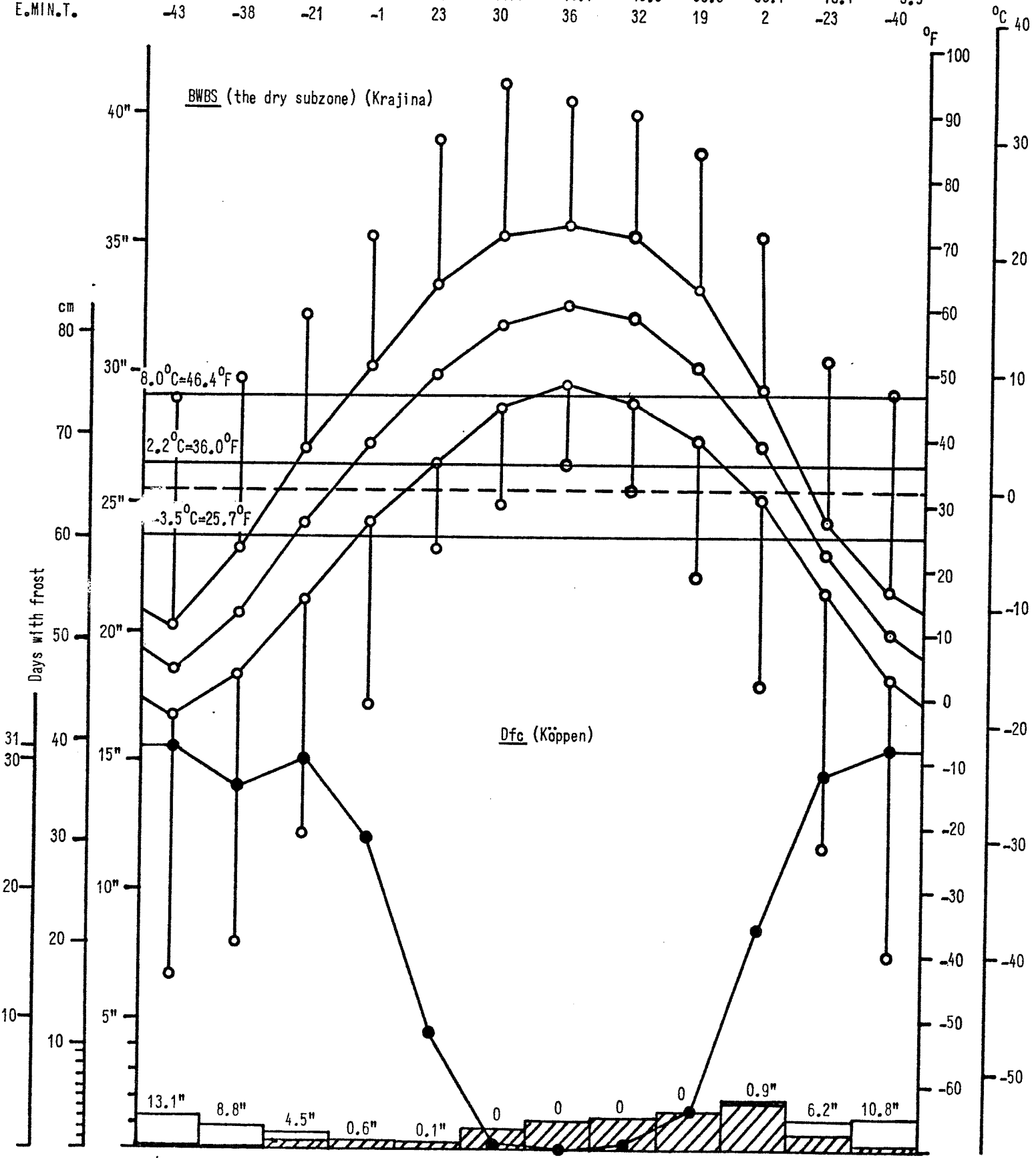
E.MAX.T.	48	53	55	66	89	93	89	88	84	69	58	45
M.D.MAX.T.	5.6	18.4	31.2	42.7	56.2	64.4	66.9	64.8	56.0	42.6	24.6	11.6
M.D.T.	-2.8	8.2	19.1	31.8	43.5	51.4	54.7	52.6	45.3	34.3	17.1	3.9
M.D.MIN.T.	-11.8	-2.1	7.0	20.8	30.7	38.3	42.4	40.5	34.5	26.0	9.5	-4.0
E.MIN.T.	-60	-55	-45	-25	12	22	28	21	5	-10	-38	-51



Days with frost	31	28	31	29	20	5	1	3	11	25	29	31
M.M.T.P.	1.11	1.02	0.83	0.46	0.84	1.51	2.12	2.13	1.72	1.34	1.26	1.19
MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

TELEGRAPH CREEK 57°54'N, 131°10'W, 700' ASL. Record: 10-20 years.  
 Months above 50°F: 4, below 32°F: 5, A.M.T.P. 12.59", A.M.S.F. 45.0", snow % A.M.T.P. : 35.74, days with frost, yearly. 202.

E.MAX.T.	46	49	59	71	86	95	92	90	84	71	52	47
M.D.MAX.T.	11.2	22.7	38.5	51.0	63.7	71.0	72.7	71.5	62.8	47.7	27.8	16.6
M.D.T.	4.3	13.0	26.9	39.1	49.9	57.7	60.4	58.5	51.2	39.2	22.3	10.0
M.D.MIN.T.	-2.8	3.3	15.3	27.2	36.0	44.3	48.1	45.5	39.9	30.7	16.7	3.9
E.MIN.T.	-43	-38	-21	-1	23	30	36	32	19	2	-23	-40



Days with frost	31	28	30	24	9	*	0	*	3	17	29	31
M.M.T.P.	1.38	0.93	0.64	0.37	0.35	0.71	1.18	1.26	1.45	1.96	1.12	1.24
MONTH	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		
BWBS: 1	1	A	1	7	a	Pleurozio ( <i>schreberi</i> ) - Ptilio ( <i>cris-tae-castrensis</i> ) - Piceetum <i>glaucae</i>	
2	1	A	1	7	a	Equiseto ( <i>arvensis</i> ) - Salico ( <i>sitchensis</i> ) Populo ( <i>trichocarpae</i> ) - Piceetum <i>glaucae</i>	
Subalpine One SFWB): 3	1	E	2	1		Salico ( <i>barclayi</i> ) - Abietetum <i>lasiocarpae</i>	
4	1	G	2	1		Mertensio ( <i>paniculatae</i> ) - Salicetum <i>barclayi</i>	
5	1	E	2	1		Festuco ( <i>altaicae</i> ) - Salicetum <i>glaucae</i> - <i>barclayi</i>	
6	1	C	2	1	a	Sphagno ( <i>recurvae</i> ) - Salico ( <i>barclayi</i> ) - Betuletum <i>glandulosae</i>	
7	1	C	2	1	a	Hylocomio ( <i>splendentis</i> ) - Salico ( <i>barclayi</i> ) - Betuletum <i>glandulosae</i>	
8	1	B	1	7		Festuco ( <i>altaicae</i> ) - Salico ( <i>planifoliae</i> ) - <i>barclayi</i> ) - Abietetum <i>lasiocarpae</i>	
9	1	M	2	1		Oxytropo ( <i>maydellianae</i> ) - Lupino ( <i>arctici</i> ) Festucetum <i>altaicae</i>	
10	1	H	1	3		Festuco ( <i>altaicae</i> ) - Cassiopetum <i>mertensianae</i>	
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

7.  
(cont.)

2

Soil

Community Reference Number	Soil type	Other notes
1	AC I <sub>2</sub>	Regosol (alluvial fans of quartz sands)
2	AC I <sub>2</sub>	Regosol
3	ABC F <sub>5</sub>	Brunisol
4	ABGC F <sub>5</sub> /P <sub>2</sub>	Gleyed Brunisol
5	ABGC F <sub>5</sub> /P <sub>2</sub>	Gleyed Brunisol
6	O-AGC O/P <sub>2</sub>	Gleysol - Organic
7	ABC F <sub>5</sub>	Brunisol
8	ABGC F <sub>5</sub> /P <sub>2</sub>	Gleyed Brunisol
9	ABC AC F <sub>5</sub> /F <sub>1</sub>	Alpine Brunisol - Pararendzina
10	ABC F <sub>5</sub>	Dystric Brunisol
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		





9. Landscape

1. General Landscape (give brief description) .....  
 Gentle mountains highly smoothed by glaciation.  
 .....  
 .....

2. Relief Type

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

3. Special landscape features (list) .....  
 Exceptionally gentle mountains.  
 .....  
 .....

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		
Standing	X	
Running	X	

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps				
Ponds	X			
Lakes	X			

3. Running Water

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

4. Special freshwater features ..... nil  
 .....

12. Salt and Brackish Water within IBP Area\* nil

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 nil

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										
Aves		X										
Reptilia		?										
Amphibia		?										
Pisces												
Insecta		X										

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

Grizzly bear

.....

.....

.....

.....

.....

.....

.....

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					
grass		X				X					
Gymnospermae		X				X					
Pteridophyta		?									
Bryophyta		X				X					
Lichens and Algae		X				X					

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

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

15. Exceptional Interest of IBP Area\*

Extremely well developed plant associations of the upper subzone of the interior subalpine (white spruce - subalpine fir - willow - birch)(SFWB) zone, relatively easily accessible.

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			
Other soil disturbance			X			
Grazing					X	
Selective flora disturbance			X			
Logging					?	
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			

road to mines

3. Additional details on each type of impact attached?

Yes ..... No .....

There are some mine claims here, but no evidence was found about any activity. The mining road serves as an access to this area.

17. Conservation Status (Future):

	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	

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 .....<sup>X</sup> For part of area ..... None .....

19. Other Relevant Information

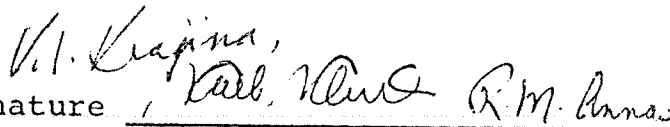
There is some mine activity on this mountain for which some roads (one ?) were built in this area. It has been hoped that the area outside of mines could serve as an ecological reserve which will become more easily accessible because of the road.

V.J. Krajina, R.M. Annas,  
K. Klinka, R.G. McMinn  
Signed .....  
(Surveyor)

*V.J. Krajina, Paul, R. M. Annas*

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.)  
Hotailuh Range I: (Thenatlodi Mtn., between Stikine River and Tanzilla River (Great Creek) Basins)
3. Indicate the biogeoclimatic zone of which the reserve is representative.  
BWBS (very little), (ESSFc =) SFWB, AT
4. Approximate total acreage.  
7806ha 19,275 acres (A: 9,212 acres B: 10,063 acres above 4000')
5. Purpose of the reserve.  
The representative part of the mainly SFWB zone. It should not be logged or used anyhow (for scenic purposes).
  - (a) Primary (state acreage)  
A: 9,212 acres (BWBS and the lower subzone of the Interior Subalpine (SFWB) zone)
  - (b) Others if any (state acreage)  
-----
  - (c) Buffer areas (state acreage)  
B: 10,063 acres (upper subzone of the interior subalpine (SFWB) zone and the AT zone)
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.  
Productivity of the forest here is very low by the following trees: Picea glauca, P. mariana (and their hybrids), Abies lasiocarpa, Pinus contorta, Betula papyrifera, Populus tremuloides, and very little of P. trichocarpa.

  
 Signature \_\_\_\_\_  
 I.B.P. Surveyor  
 V. J. Krajina, K. Klinka and R. M. Annas