

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.)
Immediately southwest of Joe Irwin Lake and east of Anvil Lake, north of highway 31.
3. Indicate the biogeoclimatic zone of which the reserve is representative.
Boreal Black and White Spruce
4. Approximate total acreage.
97 acres
5. Purpose of the reserve.
Preservation of good climax stand of boreal spruce forest and adjacent lakeside associations.
 - (a) Primary (state acreage)
97 acres
 - (b) Others if any (state acreage)
 - (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. Picea glauca, P. mariana, Pinus contorta, Abies lasiocarpa, Populus trichocarpa, and P. tremuloides.

Jim Pojar L. K. Wade
L.K.Wade, K.I.Beamish, J.Pojar,
G.Otto and A.Guppy.

Signature

I.B.P. Surveyor

N / R

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

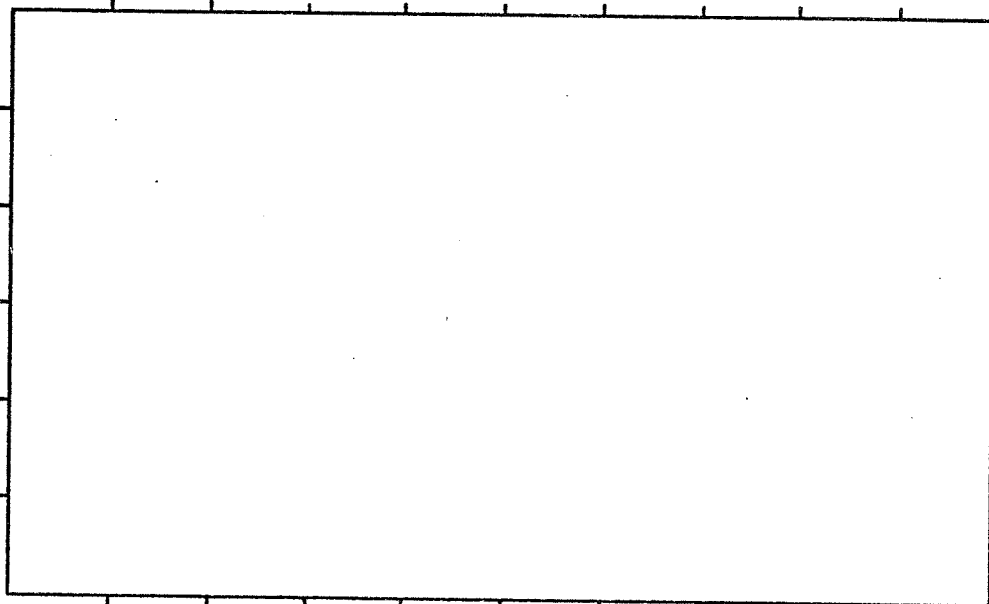
Serial Number

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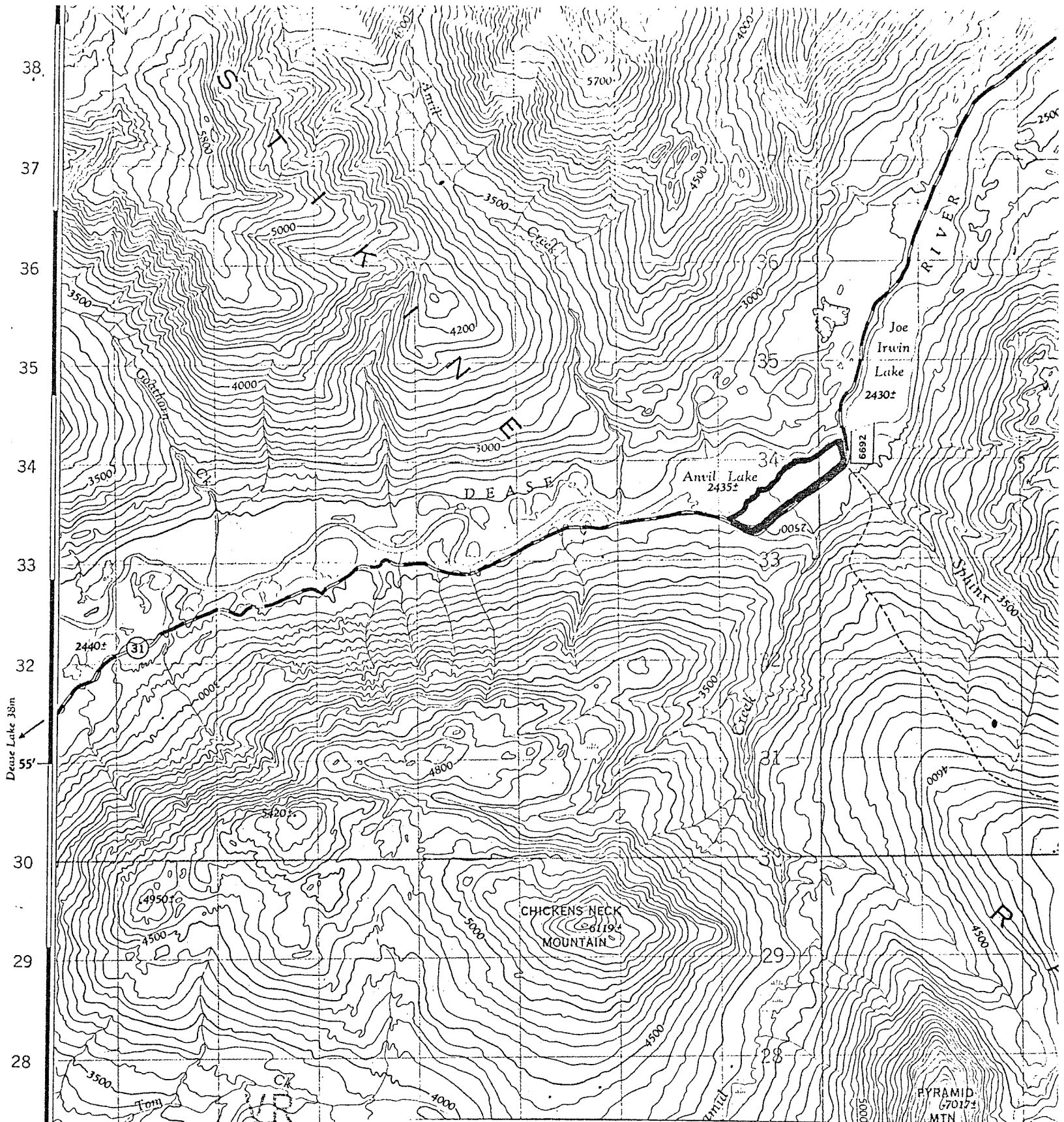
For Data Centre Use only

1. 1. Name of surveyor L.K.Wade, *K.I.Beamish, *J.Pojar, *G.Otto, *A.Guppy.
 2. Address of surveyor Dept. of Biology, *)Dept. of Botany,
Capilano College, Univ. of British Columbia,
North Vancouver, B.C. Vancouver 8, B.C.
 3. Check Sheet completed (a) on siteX..... (b) from records
 4. Date Check Sheet completedJuly 1973.....

2. 1. Name of IBP Area Southwest of Joe Irwin Lake and east of Anvil Lake,
north of highway 31, Stikine Ranges of Cassiar Mountains.
 2. Name of IBP Subdivision (or serial letter)BWBS.....
 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.

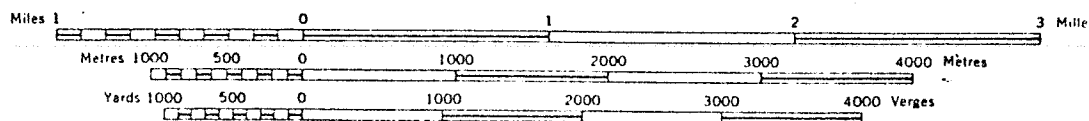


BEADY RANGE

CASSIAR DISTRICT

BRITISH COLUMBIA

SCALE 1:50,000 ÉCHELLE



3. Location of IBP Area*

- 1. Latitude 58° 57' N/E Longitude 129° 55' 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) ca. 97 acres
- 2. Altitude (state units of measurement) Maximum 2435° (730m)
 Minimum 2435° (730m)

6. Climate

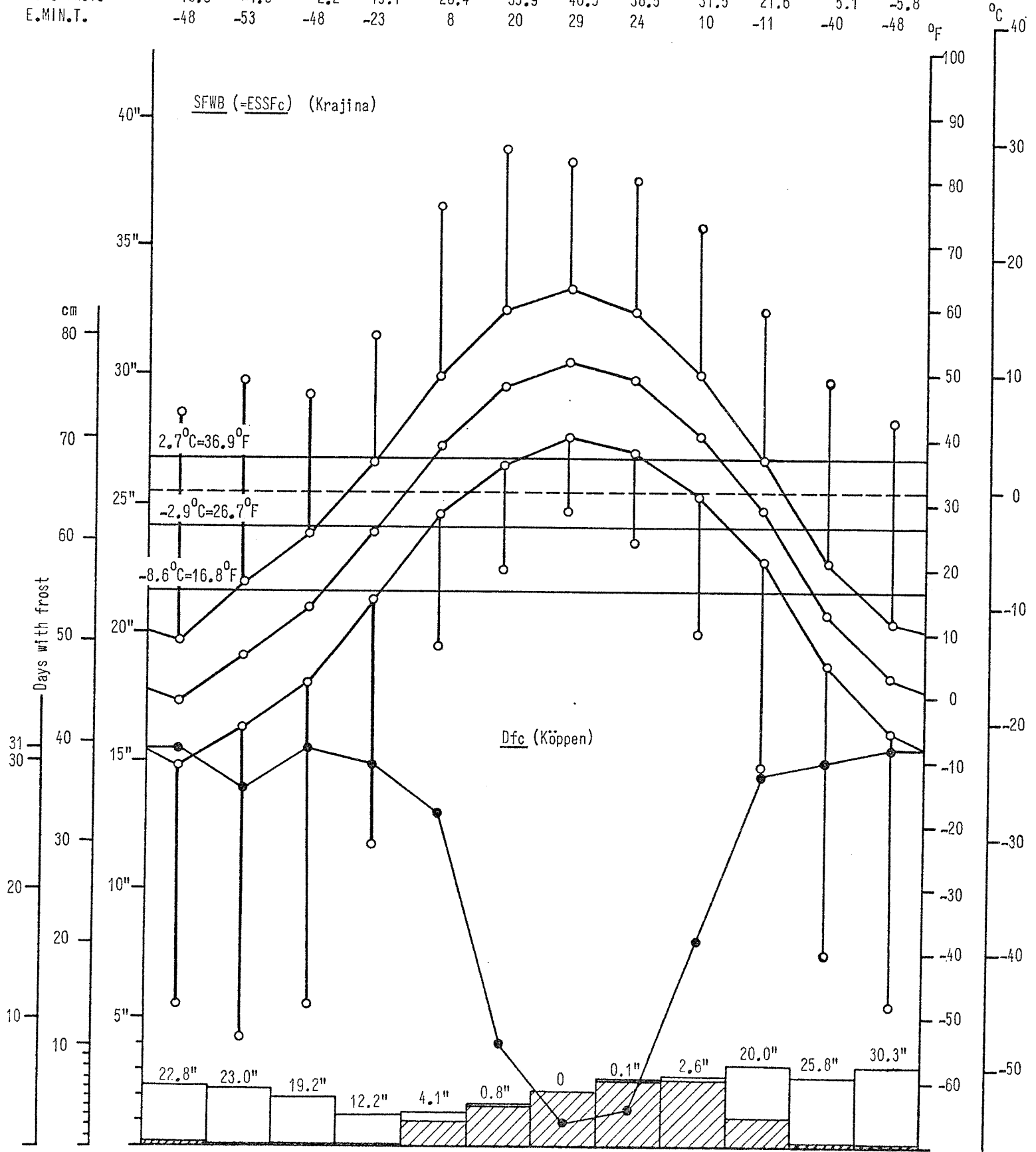
Nearest climatological station :

- 1. Name Cassiar
- 2. Climatological station on IBP Area*? Yes No X.....
- 3. If (2) not, distance from edge of IBP Area* (state units) 24mi.
- 4. Direction from IBP Area* N
- 5. Additional data sheet attached? Yes X..... No

CASSIAR .59°17'N, 129°51'W, 3535' ASL. Record: 11-17 years, adjusted.

Months above 50°F: 1, below 32°F: 7, A.M.T.P. 27.57", A.M.S.F. 160.9", snow % A.M.T.P.: 58.36, days with frost, yearly: 265.

E.MAX.T.	44	49	47	56	76	85	83	80	73	60	49	43
M.D.MAX.T.	9.4	17.9	25.5	36.4	49.9	60.0	63.4	59.9	50.2	37.0	20.9	11.8
M.D.T.	-0.6	6.6	13.9	25.8	39.2	48.0	52.0	40.2	40.9	29.3	13.0	3.0
M.D.MIN.T.	-10.6	-4.8	2.2	15.1	28.4	35.9	40.5	38.5	31.5	21.6	5.1	-5.8
E.MIN.T.	-48	-53	-48	-23	8	20	29	24	10	-11	-40	-48



Days with frost	31	28	31	30	26	8	2	3	16	29	30	31
M.M.T.P.	2.42	2.32	1.96	1.25	1.42	1.70	2.14	2.62	2.75	3.17	2.71	3.11
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		
1	1	A	1	7	a	<u>Picea glauca-Alnus-Viburnum-Cornus</u>	
2	1	A	1	7	a	<u>Picea glauca-Alnus-Streptocarpus-Gymnocarpium</u>	
3	1	A	2	1		<u>Alnus-Populus-Epilobium-Salix</u>	
4	1	B	2	1		<u>Alnus-Salix-Equisetum-Ribes</u>	
5	1	A	1	7	a	<u>Picea-Rosa-Equisetum-Streptopus</u>	
6	1	B	2	1		<u>Salix-Alnus</u>	
7	1	B	1	3	d	<u>Picea mariana-Ledum-Sphagnum</u>	
8	1	B	2	1		<u>Salix-Carex</u>	
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

9. Landscape

1. General Landscape (give brief description) Flat area bounded by Anvil
 Lake on the west and Cassiar-Stewart road on the east.

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) Flat area at the bottom of the Dease
 River valley.

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)

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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	X	
Standing	X	
Running	X	

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps				
Ponds				
Lakes	X		?	

3. Running Water

	Permanent	Intermittent
Springs, cold		
Springs, hot		
Streams		
Rivers		

4. Special freshwater features Area borders Anvil Lake and contains some aquatic and semi-aquatic plant associations.

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 Anvil 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

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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					
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

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15. Exceptional Interest of IBP Area*

.....
 Excellent sample of climax boreal spruce forest, as well as a.....
 good selection of waterside plant associations.....

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				?	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

	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. 104 1/13 W Ed. 2 MCE Series A 721

List attached? Yes No
Beady Range, Cassiar District
1:50,000

3. Aerial photographs for the IBP Area available?

For whole area For part of area None

19. Other Relevant Information

Good stands of climax boreal forest appears to be rare in the region. This proposed reserve is small, yet does include a good representative stand.

Jim Pojar L.K.Wade
L.K.Wade, K.I.Beanish, J.Pojar,

Signed G.Otto and A.Guppy.
(Surveyor)

K.I.Beanish