

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

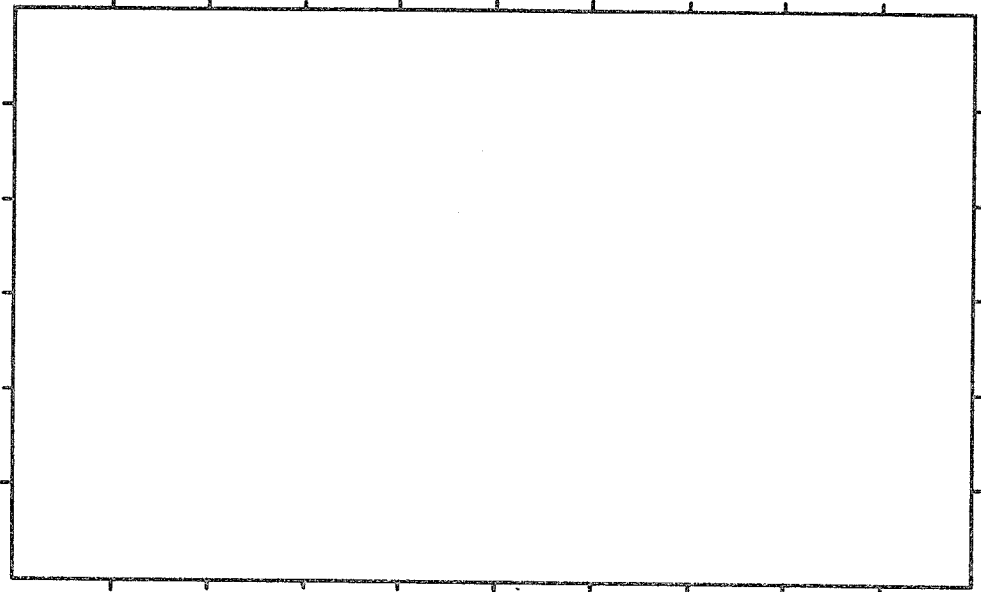
Serial Number

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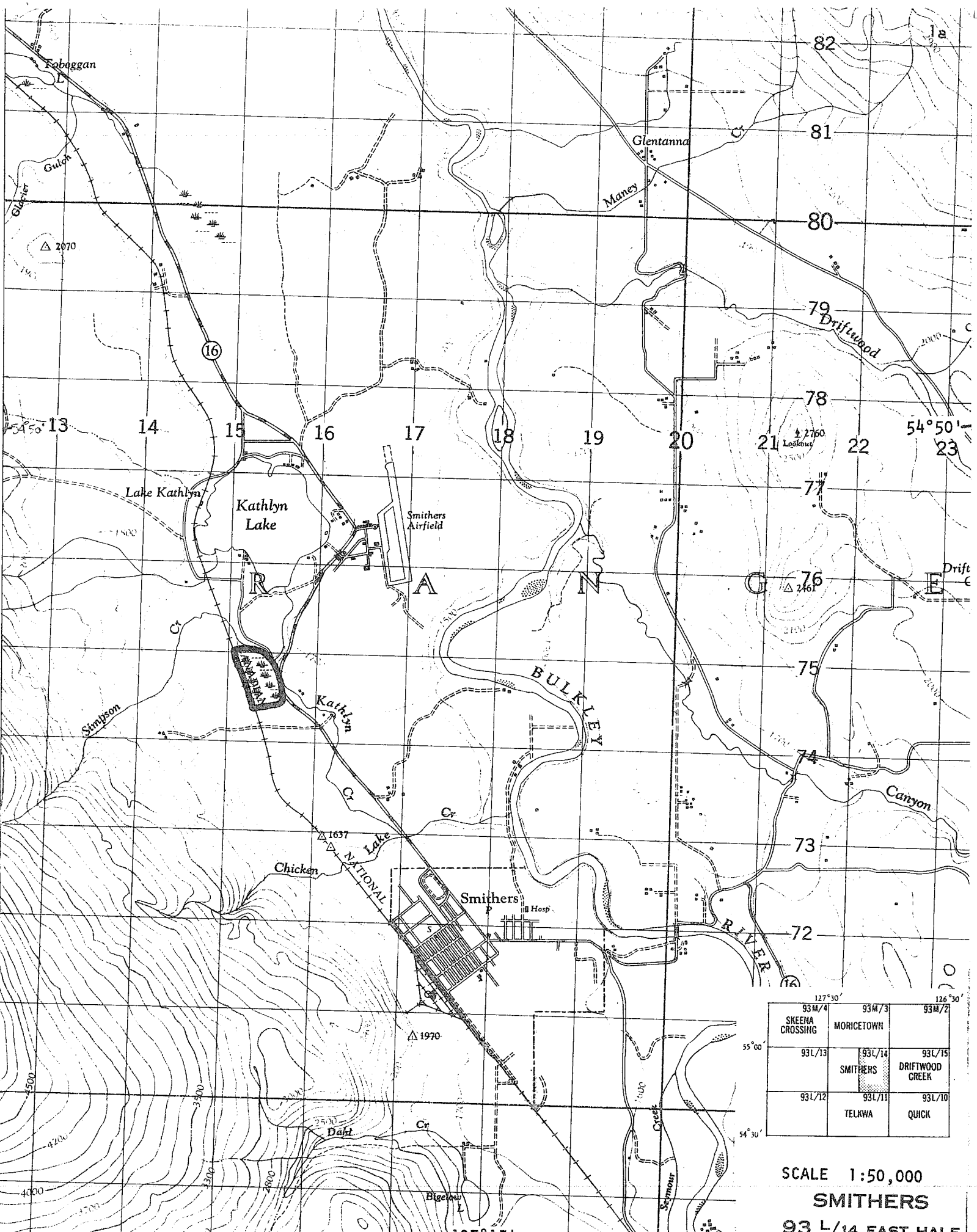
For Data Centre Use only

1. 1. Name of surveyor V.J.Krajina\*, R.G.McMinn\*\*, Jim Pojar\* and Calvin Parsons\*
2. Address of surveyor \* Dept. of Botany, Univ. of British Columbia, Vancouver, B.C., Canada
- \*\*Canada Dept. of Environment, Victoria, B.C.
3. Check Sheet completed (a) on site  (b) from records
4. Date Check Sheet completed October 20, 1974

2. 1. Name of IBP Area High moor peat bog near Kathlyn Lake, 2 mi. NW of Smithers
2. Name of IBP Subdivision (or serial letter) SBS
3. Map of IBP Area\* showing boundaries attached? Yes  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.



93M/4 SKEENA CROSSING	93M/3 MORICETOWN	93M/2
93L/13	93L/14 SMITHERS	93L/15 DRIFTWOOD CREEK
93L/12	93L/11 TELKWA	93L/10 QUICK

SCALE 1:50,000  
**SMITHERS**  
 93 L/14 EAST HALF

3. Location of IBP Area\*

1. Latitude ..... 54° 48.3-48.7' N Longitude ..... 127° 12-12.5' 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 ..... B.C. Dept. 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) ..... 60 acres  
 2. Altitude (state units of measurement) Maximum ..... 1600 ft. (485 m)  
 Minimum ..... 1600 ft. (485 m)

6. Climate

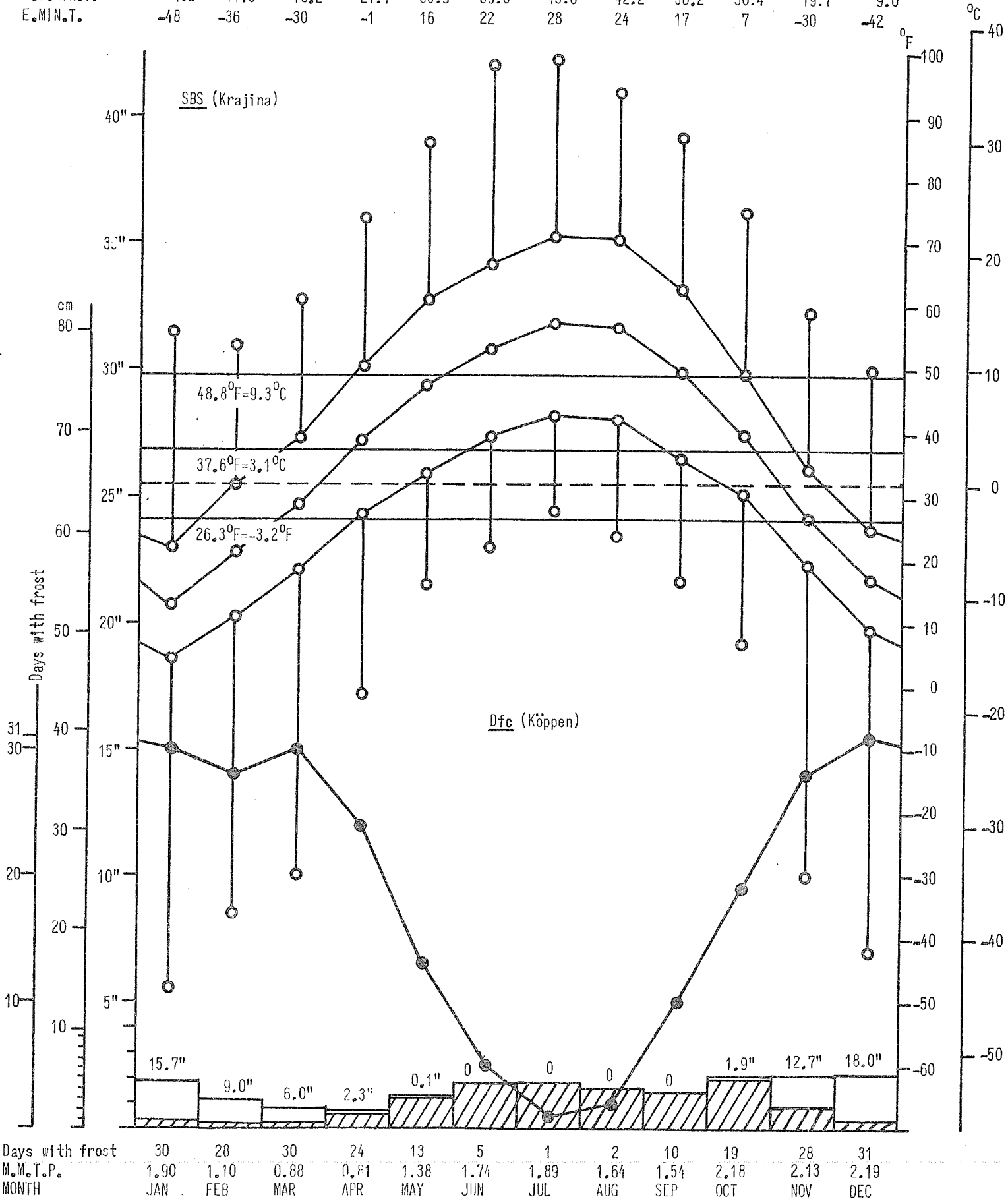
Nearest climatological station :

1. Name ..... Smithers CDA, B.C.  
 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\* ..... SE  
 5. Additional data sheet attached? Yes ...X No .....  
 (climogram of Smithers CDA)

SMITHERS (CDA) 54°44'N, 127°06'W, 1690' ASL. Record: 25-31 years.

Months above 50°F: 3, below 32°F: 5, A.M.T.P. 19.38", A.M.S.F. 65.7", snow % A.M.T.P.: 33.90, days with frkst, yearly: 221.

E.MAX.T.	56	54	61	74	86	98	99	94	87	75	59	50
M.D.MAX.T.	22.0	32.0	39.6	50.2	61.5	66.9	71.0	70.5	62.8	49.1	34.3	25.5
M.D.T.	13.1	21.6	28.9	38.8	47.8	53.4	57.3	56.4	49.5	39.8	27.0	17.3
M.D.MIN.T.	4.2	11.0	18.2	27.4	33.9	39.8	43.6	42.2	36.2	30.4	19.7	9.0
E.MIN.T.	-48	-36	-30	-1	16	22	28	24	17	7	-30	-42



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	E	1	1		Sphagno (fusci) - Ledo (groenlandici) - Piceetum marianae	
2	1	H	1	2		Sphagno (acutifolii) - Sphagno (fusci) - Ledetum groenlandici	
3	1	O	1	1		Carico (pauciflorae) - Sphagnetum fusci	
4	1	M	2	1		Sphagno (subnitentis) - Caricetum limosae	
5	1	G	2	1		Spiraeetum menziesii	
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Please give information about further communities as follows:

Kathlyn Lake bog - partial list of plants:

- Trees: *Picea glauca*  
*Picea mariana*  
*Pinus contorta*
- Shrubs: *Betula glandulosa*  
*Ledum groenlandicum*  
*Salix barclayi*
- Herbs: *Agrostis scabra*  
*Carex canescens*  
*C. disperma*  
*C. limosa*  
*C. pauciflora*  
*Epilobium angustifolium*  
*Eriophorum vaginatum*  
*Gaultheria hispidula* (chamaephyte)  
*Stellaria calycantha*  
*Trientalis arctica*  
*Oxycoccus microcarpus* (chamaephyte)
- Bryophytes: *Aulacomnium palustre*  
*Dicranum acutifolium*  
*Pleurozium schreberi*  
*Polytrichum strictum*  
*Solenostoma* sp.  
*Sphagnum capillaceum*  
*S. fuscum*  
*S. ? pulchrum*  
*S. recurvum*  
*S. subfulvum*  
*S. subnitens*
- Cetraria islandica*  
*Cladina arbuscula*  
*C. mitis*  
*C. rangiferina*  
*Cladonia gracilis*  
*C. pityrea*  
*Icmadophila ericetorum*  
*Peltigera horizontalis*  
*P. polydactyla*

7.  
(cont.)

2

Soil

Community Reference Number	Soil type	Other notes
1	A 0	High moor swamp (bog)
2	A 0	High moor
3	A 0	High moor peat bog
4	A 0	Low moor
5	A 0	Low moor
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		





9. Landscape

1. General Landscape (give brief description) ..... flat plain  
.....  
.....  
.....

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) .....  
The only high moor in Smithers area.  
.....  
.....

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	X	

in an artificial ditch

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps	X		X	
Ponds				
Lakes				

3. Running Water

	Permanent	Intermittent
Springs, cold		
Springs, hot		
Streams		
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   
 Kathlyn Lake Bulkley River

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										
Aves		X							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											
shrubs		X									
herbs		X									
grass											
Gymnospermae		X									
Pteridophyta											
Bryophyta		X	X		X	X					
Lichens and Algae		X			X	X					

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

Sphagnum subfulvum - probably the only known locality  
 .....  
 in British Columbia.  
 .....  
 .....

15. Exceptional Interest of IBP Area\*

This only high moor bog of Smithers area was partly affected  
 .....  
 by fire (about 10 acres). The remaining acreage is well  
 .....  
 conserved and should be well protected. Extremely interesting  
 .....  
 as the final climax bog community in the region.  
 .....  
 .....

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					?	
Drainage			X			
Other soil disturbance			X			
Grazing					X	
Selective flora disturbance					X	
Logging					?	
Plantation					?	
Hunting					?	
Removal of predators					?	
Pesticides					X	
Introductions — plants			X			
Introductions — animals					?	
Fire			X			
Permanent habitation					X	
Recreation and tourism			X			
Research			?			

by a ditch on margin of the bog

3. Additional details on each type of impact attached? Yes ..... No ..... X

A part of this bog (about 10 acres) was affected by fire in the past. That portion will serve for successional studies.

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	
Fauna			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. 93 L/14 East Half

List attached? Yes ..... No .....

3. Aerial photographs for the IBP Area available?

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

19.

Other Relevant Information

This area is inconvenienced by the fact that some roads and a railroad are attached to it. However, this is the only high moor peat bog we could find in the Smithers area. Therefore, it should be protected by an Ecological Reserve.

*Vlad. J. Krajina Jim Pojar*  
V.J.Krajina, R.G.McMinn,  
Signed ..... Jim Pojar, Calvin Parsons  
(Surveyor)

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.)  
Rocky Mountain juniper above a quarry east of Tyhee Lake near Telkwa,  
part of a Lot 31
3. Indicate the biogeoclimatic zone of which the reserve is representative.  
SBS
4. Approximate total acreage.  
+112 acres
5. Purpose of the reserve.  
To conserve an outstanding Juniperus scopulorum savanna steppe, unique in the SBS
  - (a) Primary (state acreage)  
112 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.  
Juniperus scopulorum, Populus tremuloides, Acer glabrum, commercial value almost nil.

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

I.B.P. Surveyor  
George Koopmans and Calvin P...