

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.)
"Taspai Creek Wetlands", ca. 28 miles E.S.E. of Prince George, between the Willow and Bowron Rivers.

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

4. Approximate total acreage.
1,600 acres

5. Purpose of the reserve.
Conservation of representative lowland forest associations, and a portion of a stream, some small lakes, and their associated productive wetland vegetation.
(a) Primary (state acreage)
1,600 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 mariana
Picea glauca
Picea engelmannii
Abies lasiocarpa
Pseudotsuga menziesii (rare)
Tsuga heterophylla (occasional)
Pinus contorta
Populus tremuloides

V.J. Krajina
J. Pojar C. Parsons.
 Signature J. Pojar, R.G. McMinn,
 I.B.P. Surveyor
 C. Parsons, 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

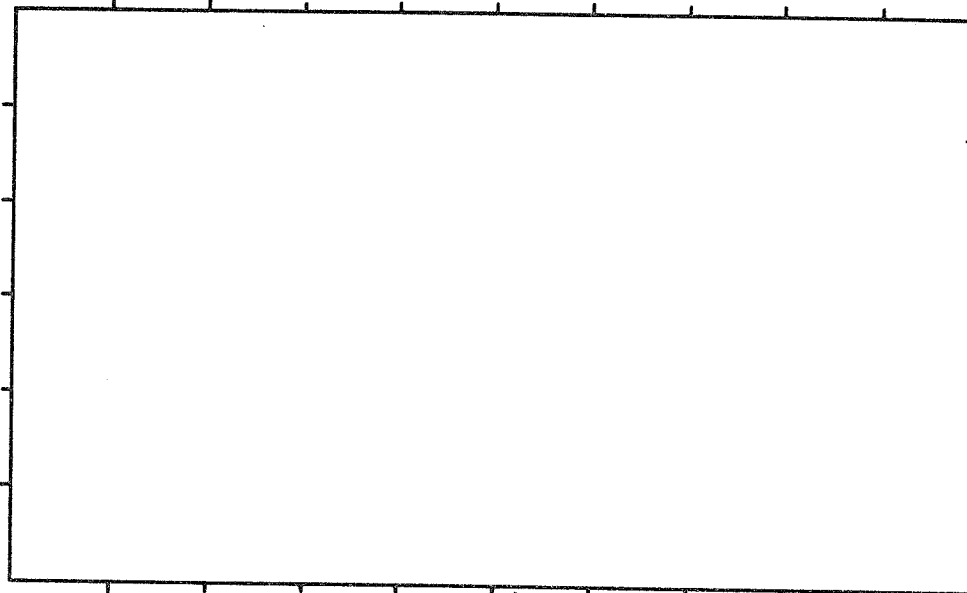
Serial Number

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| | | | | | | | |
|--|--|--|--|--|--|--|--|

For Data Centre Use only

1. 1. Name of surveyor *J. Pojar, **R.G. McMinn, *C. Parsons, *V.J. Krajina
 2. Address of surveyor *Dept. of Botany, University of British Columbia, Vancouver, B.C.
 **Canada Dept. of Environment, Victoria, B.C.
 3. Check Sheet completed (a) on siteX..... (b) from recordsX.....
 4. Date Check Sheet completedOctober 29, 1974.....

2. 1. Name of IBP Area Taspai Creek Wetlands, ca. 28 mi. E.S.E. of Prince George
 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.

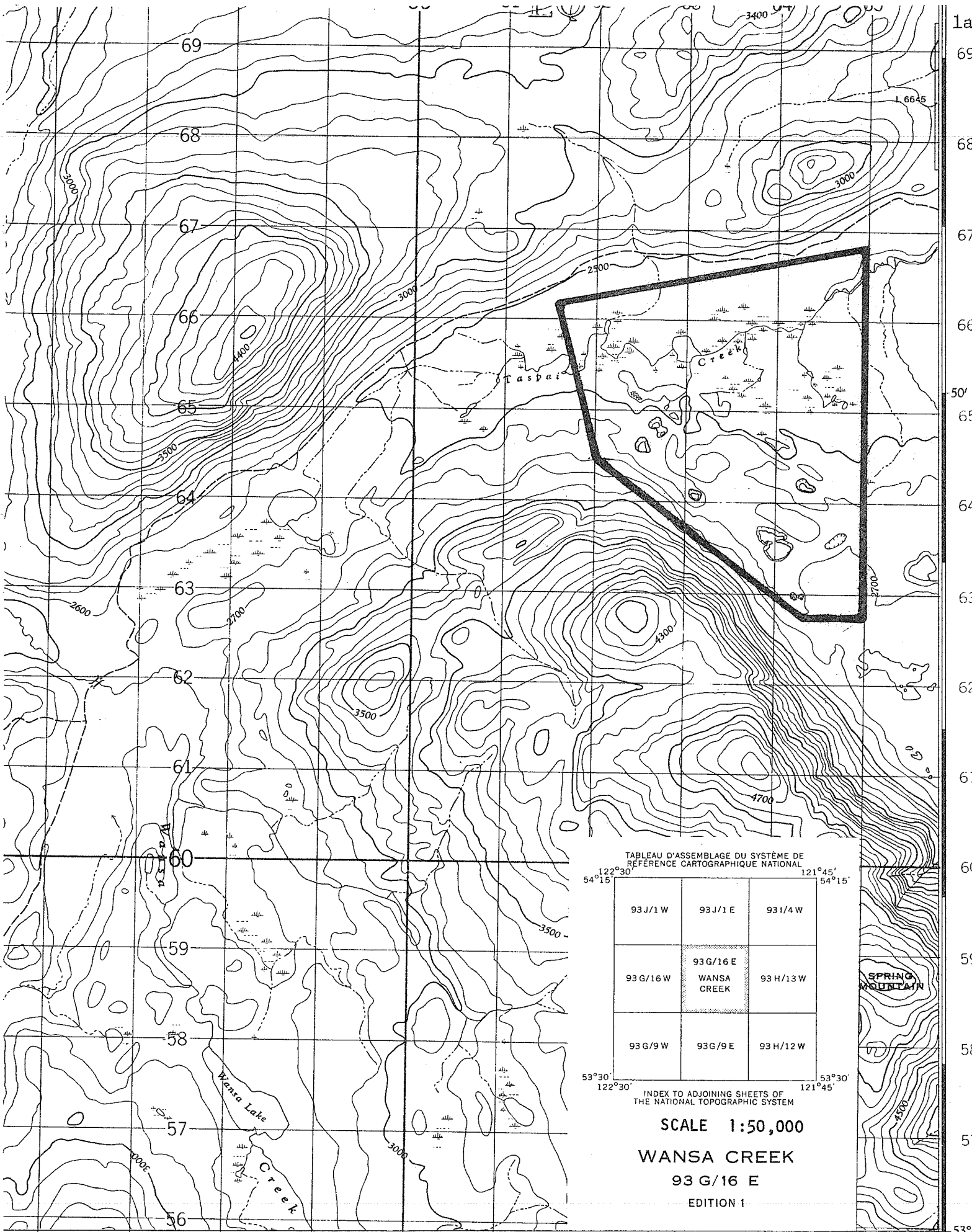


TABLEAU D'ASSEMBLAGE DU SYSTEME DE
 REFERENCE CARTOGRAPHIQUE NATIONAL

| | | |
|-----------|-----------------------------|-----------|
| 93 J/1 W | 93 J/1 E | 93 I/4 W |
| 93 G/16 W | 93 G/16 E WANSA CREEK | 93 H/13 W |
| 93 G/9 W | 93 G/9 E | 93 H/12 W |

INDEX TO ADJOINING SHEETS OF
 THE NATIONAL TOPOGRAPHIC SYSTEM

SCALE 1:50,000
 WANSA CREEK
 93 G/16 E
 EDITION 1

1a
69
68
67
66
50'
65
64
63
62
61
60
59
58
57
56

3. Location of IBP Area*

1. Latitude 53 ° 48.2-50.8' N Longitude 122 ° 00.9-04.3' 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. Dept. 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) | (C) | (D) X |

5. Characteristics of IBP Area*

1. Surface area (state units of measurement) 1,600 acres
2. Altitude (state units of measurement) Maximum 2,900 ft. (890 m)
- Minimum 2,450 ft. (750 m)

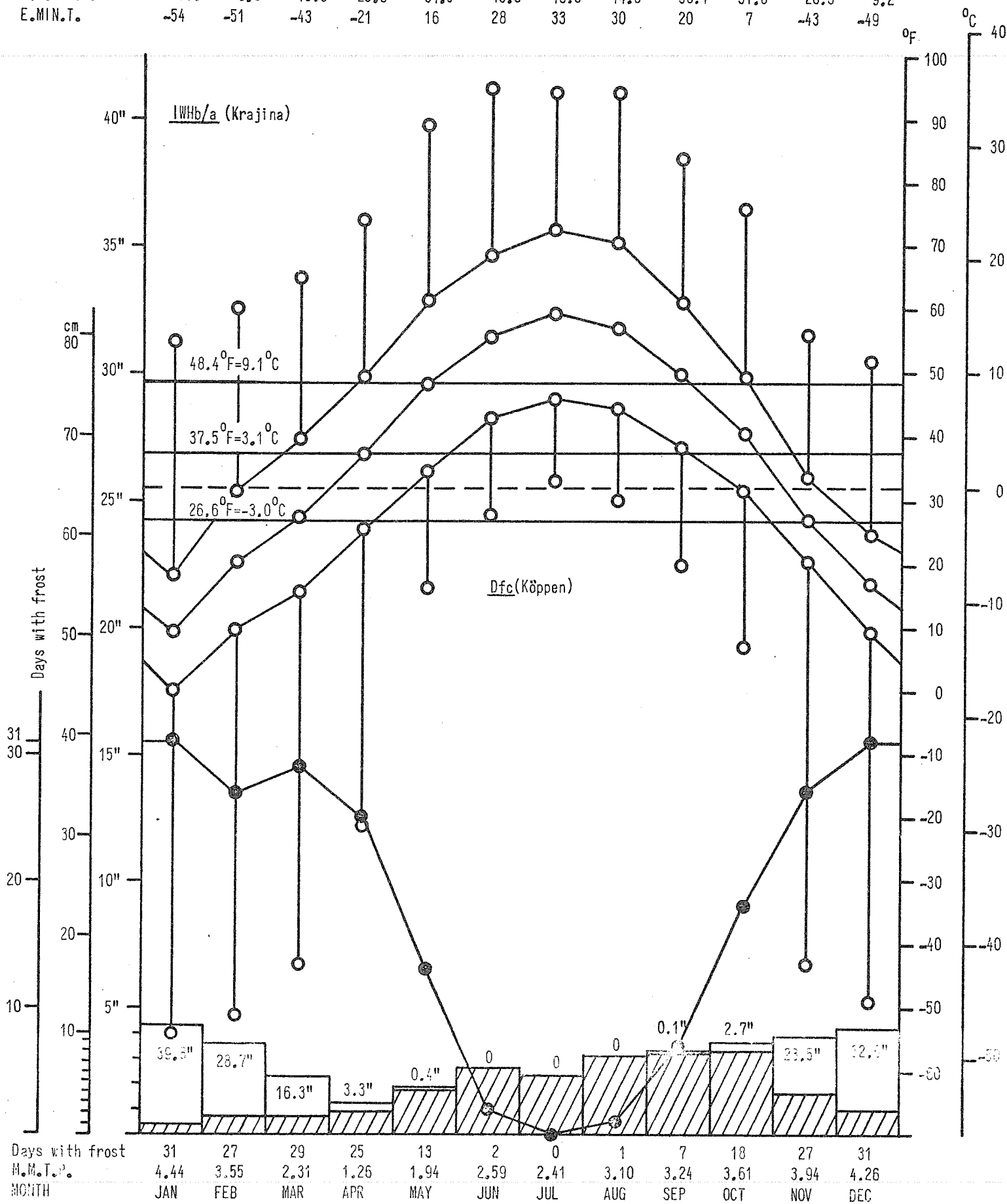
6. Climate

Nearest climatological station :

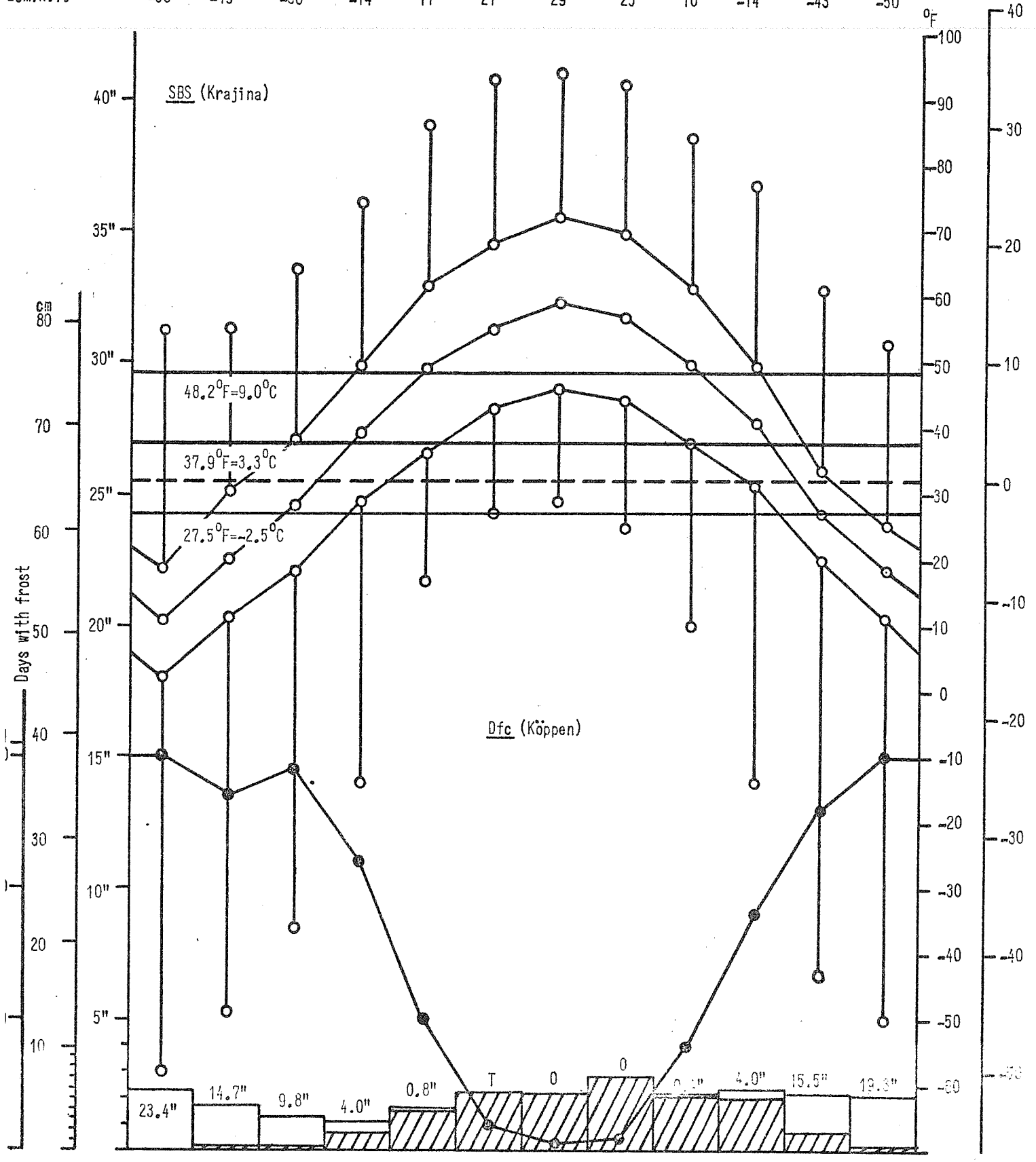
1. Name a) Aleza Lake b) Prince George Airport
2. Climatological station on IBP Area*? Yes No X
3. If (2) not, distance from edge of IBP Area* (state units) a) 20 mi. b) 25 mi.
4. Direction from IBP Area* a) N, b) W.N.W.
5. Additional data sheet attached? Yes X No

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.M.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 |



| | | | | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| E.MAX.T. | 55 | 55 | 64 | 74 | 86 | 93 | 94 | 92 | 84 | 77 | 61 | 53 |
| M.D.MAX.T. | 19.0 | 30.5 | 38.3 | 49.6 | 61.6 | 67.8 | 71.8 | 69.4 | 61.5 | 49.3 | 33.8 | 25.4 |
| M.D.T. | 10.7 | 20.8 | 28.3 | 39.1 | 49.0 | 55.4 | 58.9 | 56.7 | 49.7 | 40.4 | 26.9 | 18.3 |
| M.D.MIN.T. | 2.4 | 11.2 | 18.2 | 28.6 | 36.3 | 43.0 | 45.9 | 44.0 | 37.8 | 31.5 | 20.0 | 11.1 |
| E.MIN.T. | -58 | -49 | -36 | -14 | 17 | 27 | 29 | 25 | 10 | -14 | -43 | -50 |



| | | | | | | | | | | | | |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Days with frost | 30 | 27 | 29 | 22 | 10 | 2 | * | 1 | 8 | 18 | 26 | 30 |
| A.M.T.P. | 2.33 | 1.69 | 1.24 | 1.16 | 1.66 | 2.29 | 2.28 | 2.89 | 2.20 | 2.40 | 2.16 | 2.13 |
| 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 mariana</u> - <u>Equisetum</u> spp. - <u>Sphagnum</u> sp. - <u>Hylocomium splendens</u> - <u>Ptilium crista-</u> <u>castrensis</u> - <u>Pleurozium schreberi</u> assoc. | |
| 2 | 1 | B | 1 | 3 | | <u>Picea mariana</u> - <u>Betula pumila</u> - <u>Tomenthypnum</u> <u>nitens</u> - <u>Sphagnum</u> sp. assoc. | |
| 3 | 1 | A | 1 | 7 | a | <u>Picea glauca</u> - <u>Abies lasiocarpa</u> - <u>Gymnocarpium</u> <u>dryopteris</u> - <u>Ptilium crista-castrensis</u> assoc. | |
| 4 | 1 | B | 2 | 2 | a | <u>Betula pumila</u> - <u>Tomenthypnum nitens</u> - <u>Drepanocladus aduncus</u> assoc. | |
| 5 | 1 | B | 2 | 2 | a | <u>Betula pumila</u> - <u>Vaccinium oxycoccus</u> - <u>Tomenthypnum nitens</u> - <u>Sphagnum</u> spp. assoc. | |
| 6 | 1 | B | 2 | 2 | a | <u>Betula pumila</u> - <u>Drepanocladus aduncus</u> - <u>Tomenthypnum nitens</u> - <u>Sphagnum</u> spp. assoc. | |
| 7 | 1 | M | 2 | 1 | | <u>Carex aquatilis</u> - <u>Sium suave</u> assoc. | |
| 8 | 1 | M | 2 | 1 | | Caricetum rostratae | |
| 9 | 2 | I | 2 | 3 | | Nupharetum polysepalae | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Please give information about further communities on a separate sheet.

Taspai Creek Wetlands

- partial species list -

trees:

Abies lasiocarpa
Betula papyrifera
Picea engelmannii, P. glauca, P. mariana
Pinus contorta
Populus tremuloides
Tsuga heterophylla (occasional)

shrubs:

Alnus sinuata, A. tenuifolia
Amelanchier alnifolia
Betula pumila, B. glandulosa
Cornus stolonifera
Ledum groenlandicum
Lonicera involucrata
Ribes lacustre, R. triste
Rosa acicularis
Rubus strigosus
Salix bebbiana, S. glauca, S. pedicellaris
S. pyrifolia, S. sitchensis
Sambucus racemosa
Spiraea douglasii var. menziesii
Vaccinium myrtilloides, V. ovalifolium, V. membranaceum
Viburnum edule

herb layer:

Actaea rubra
Angelica genuflexa
Aralia nudicaulis
Aster conspicuus, A. modestus
Athyrium filix-femina
Calamagrostis canadensis
Carex aquatilis, C. diandra, C. disperma
C. magellanica, C. rostrata
Cicuta bulbifera
Cinna latifolia
Circaea alpina
Cornus canadensis
Cyperus aristatus
Dryopteris austriaca
Eleocharis palustris
Epilobium adenocaulon, E. glandulosum, E. palustre
Equisetum arvense, E. fluviatile, E. pratense, E. sylvaticum
Galium boreale, G. triflorum
Gaultheria hispidula
Geocaulon lividum
Geum rivale
Glyceria striata
Goodyera repens
Gymnocarpium dryopteris
Habenaria dilatata, H. obtusata
Hippuris vulgaris
Linnaea borealis
Listera cordata
Lycopodium annotinum
Mentha arvensis
Mitella nuda
Nuphar polysepalum
Osmorhiza chilensis
Parnassia palustris
Petasites frigidus, P. palmatus, P. sagittatus

Poa palustris
Polygonum amphibium
Potentilla palustris
Pyrola asarifolia, P. secunda
Ranunculus lapponicus
Rubus pedatus, R. pubescens
Scutellaria galericulata
Senecio pauperculus
Sium suave
Senecio triangularis
Stellaria umbellata
Thalictrum occidentale
Tiarella unifoliata
Vaccinium caespitosum, V. oxycoccus, V. vitis-idaea
Veronica americana
Viola palustris

bryophytes:

Aulacomnium palustre
Dicranum fuscescens
Drepanocladus aduncus
Pleurozium schreberi
Ptilium crista-castrensis
Rhytidiadelphus triquetrus
Sphagnum spp.
Tomenthypnum nitens

lichens: Alectoria americana, A. sarmentosa
Cladonia spp.
Lobaria pulmonaria
Peltigera aphthosa, P. malacea

7. 2
(cont.)Soil

| Community Reference Number | Soil type | Other notes |
|-------------------------------|------------------------------------|--------------------|
| 1 | A 0 | Forest Swamp (Bog) |
| 2 | A 0 | Bog (Forest Swamp) |
| 3 | ABC F ₅ | Luvisol - Brunisol |
| 4 | A 0 | Low Moor |
| 5 | A 0 | Low Moor |
| 6 | A 0 | Low Moor |
| 7 | AGC P ₁ /P ₂ | Gleysol |
| 8 | AGC P ₁ /P ₂ | Gleysol |
| 9 | (AGC) P ₁ | Subaqueous Gleysol |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |
| 14 | | |
| 15 | | |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |

9. Landscape

1. General Landscape (give brief description) ... Bottomlands along the valley of Taspai Creek (streams, many small lakes and ponds, and associated marshland, plus forest), and a portion of the lower slopes of a mountainside.

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) ... Pothole lakes depressed below surrounding land.

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 | X | X |
| Standing | X | X |
| Running | | |

2. Standing Water

| | Permanent | Intermittent | Unproductive | Productive |
|--------|-----------|--------------|--------------|------------|
| Swamps | X | | | X |
| Ponds | X | X | | X |
| Lakes | X | | | X |

3. Running Water

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

4. Special freshwater features several pothole lakes depressed below
surroundings

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

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 | | | | |
| Pisces | | X | | | | | | X | X | | | |
| Insecta | | X | | | | | | 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 | | | | |
| herbs | | X | | | X | | X | | | | |
| grass | | X | | | X | X | X | | | | |
| Gymnospermae | | X | | | | | | | | | |
| Pteridophyta | | X | | | | | X | | | | |
| Bryophyta | | X | | | X | | X | | | | |
| Lichens and Algae | | X | | | X | | X | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

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

Ranunculus lapponicus, a northern species, is abundant here.....
Salix pyrifolia near the S.W. limit of its range - also of interest
are Cicuta bulbifera and Cyperus aristatus.....

15. Exceptional Interest of IBP Area*

The proposal includes a very interesting and instructive mosaic of forest, marsh, and bog communities, as well as freshwater... features... Additionally, the marshes provide food for waterfowl and other fauna.....

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 | | X | X | | | |
| Plantation | | | | | X | |
| Hunting | | X | X | | | |
| Removal of predators | | | | | X | |
| Pesticides | | | | | X | |
| Introductions — plants | | | | | X | |
| Introductions — animals | | | | | X | |
| Fire | X | | | | | |
| Permanent habitation | | | | | X | |
| Recreation and tourism | | | X | | | |
| Research | | | | | X | |
| | | | | | | |
| | | | | | | |

drainage from N. slopes impeded by logging road

in surrounding area

3. Additional details on each type of impact attached?

Yes NoX.....

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 ...X.....

2. List main maps available for the IBP Area.

List attached? Yes No 93 G/16 East Half

3. Aerial photographs for the IBP Area available?

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

19. Other Relevant Information

A representative of the timber company concerned has informed us that his firm has "no objections to the establishment of an ecological reserve in the area indicated". Official conservation procedures should, therefore, move forward as swiftly as possible.

Jim Pojar

Signed Jim Pojar, R.G. McMinn

(Surveyor) *V.J. Krajina*

C. Parsons, V.J. Krajina

C. Parsons