

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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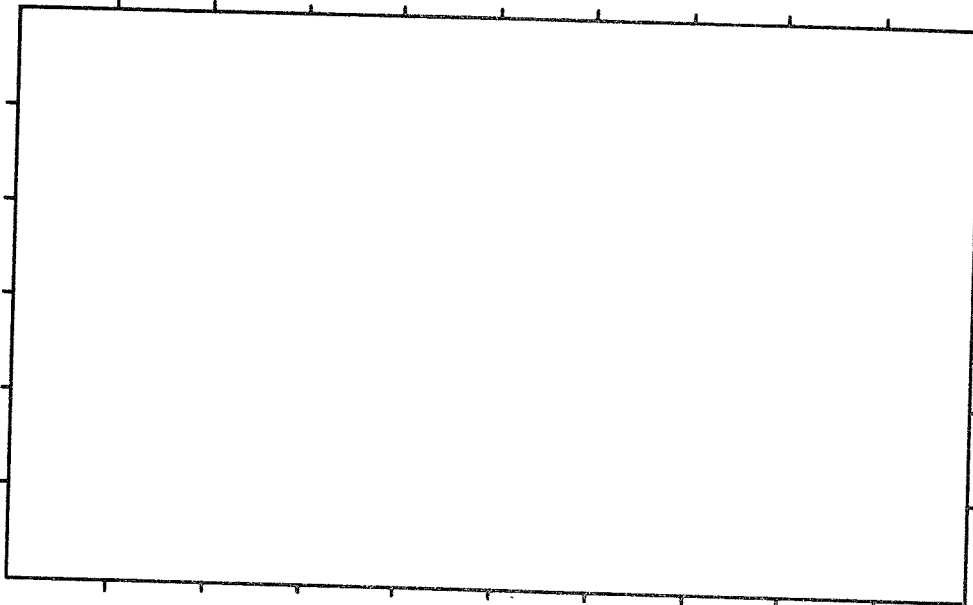
For Data Centre Use only

1.

1. Name of surveyor V. J. Krajina, J. Pojar, and C. Parsons
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 (collected plants)
4. Date Check Sheet completed October 13, 1974

2.

1. Name of IBP Area Kwun Creek, south slopes of Mt. Seaton, Babine Ranges
2. Name of IBP Subdivision (or serial letter) SBS/ESSF; ESSF; AT
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.

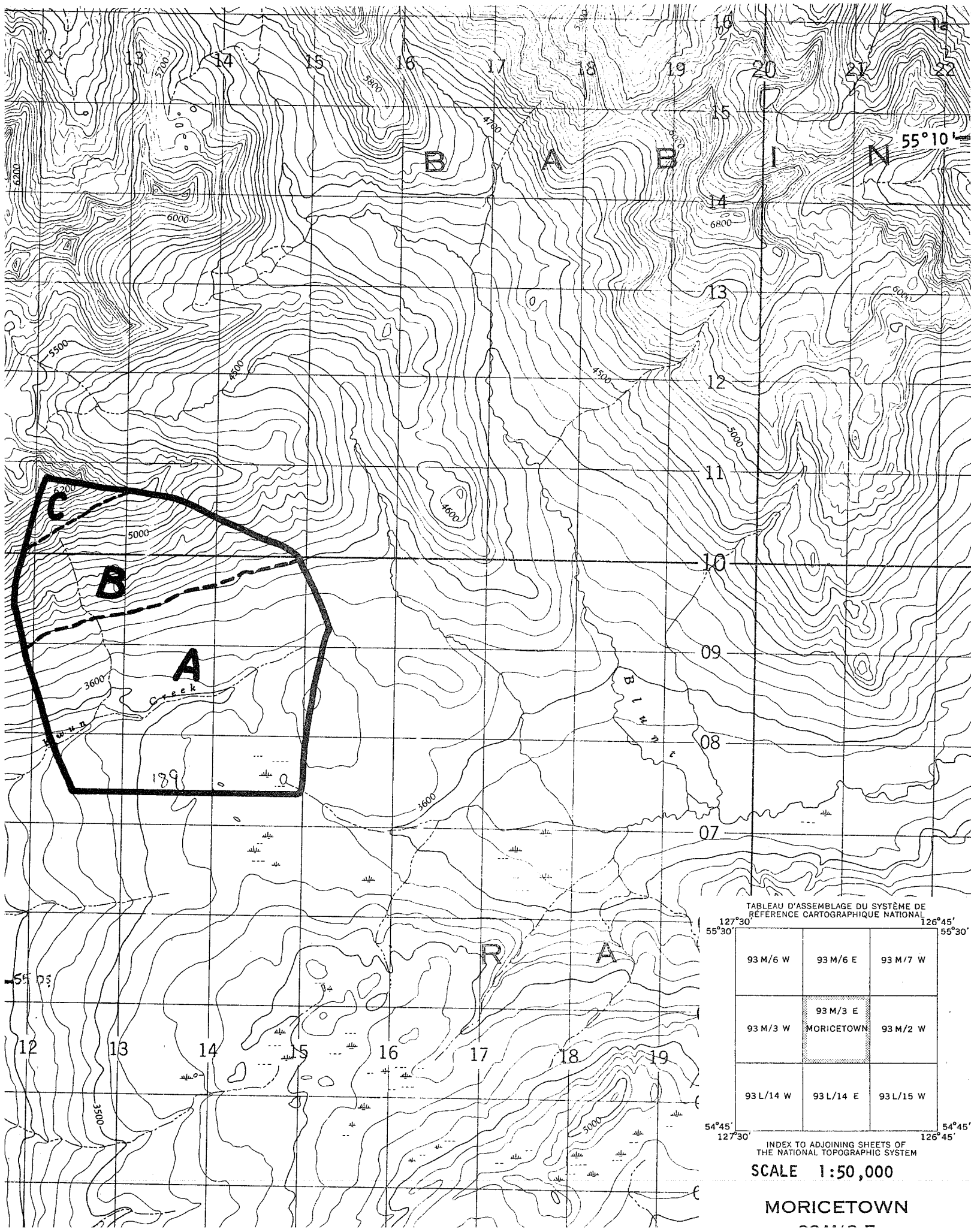


TABLEAU D'ASSEMBLAGE DU SYSTÈME DE RÉFÉRENCE CARTOGRAPHIQUE NATIONAL

127°30'	126°45'	126°45'		
55°30'	93 M/6 W	93 M/6 E	93 M/7 W	55°30'
	93 M/3 W	93 M/3 E	MORICETOWN	93 M/2 W
	93 L/14 W	93 L/14 E	93 L/15 W	
54°45'	127°30'	126°45'	126°45'	54°45'

INDEX TO ADJOINING SHEETS OF THE NATIONAL TOPOGRAPHIC SYSTEM

SCALE 1:50,000

MORICETOWN

3. Location of IBP Area*

1. Latitude 55° 06.2-08° N Longitude 122¹° 11.6-14.8° W
2. Country Canada
- State or Province British Columbia County Hazelton
- (State or Province County)

4. Administration

- National 1. Official category Crown Land
2. Address of administration British Columbia Department of Lands, Forests, and Water Resources
- Parliament Buildings, 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) 2200 acres (A: 1460, B: 560, C: 180 acres)
2. Altitude (state units of measurement) Maximum 6500 ft. (1980 m)
- Minimum 3200 ft. (975 m)

6. Climate

Nearest climatological station :

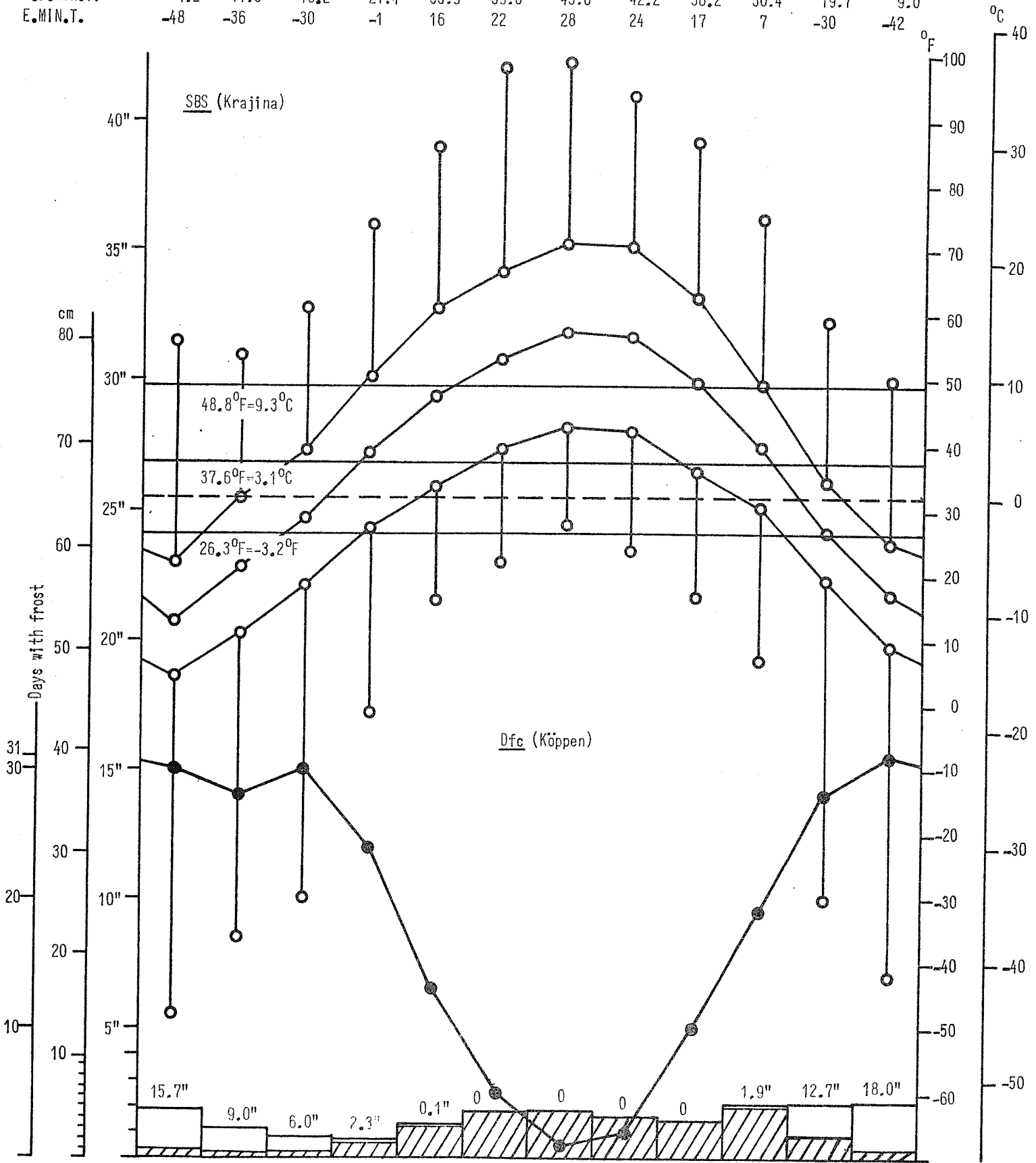
1. Name New Hazelton* and Smithers**
2. Climatological station on IBP Area*? Yes No X
3. If (2) not, distance from edge of IBP Area* (state units) 17 mi.* and 28 mi.**
4. Direction from IBP Area* N.W.* and S.E.**
5. Additional data sheet attached? Yes X No

New Hazelton and Smithers

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 frost, 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

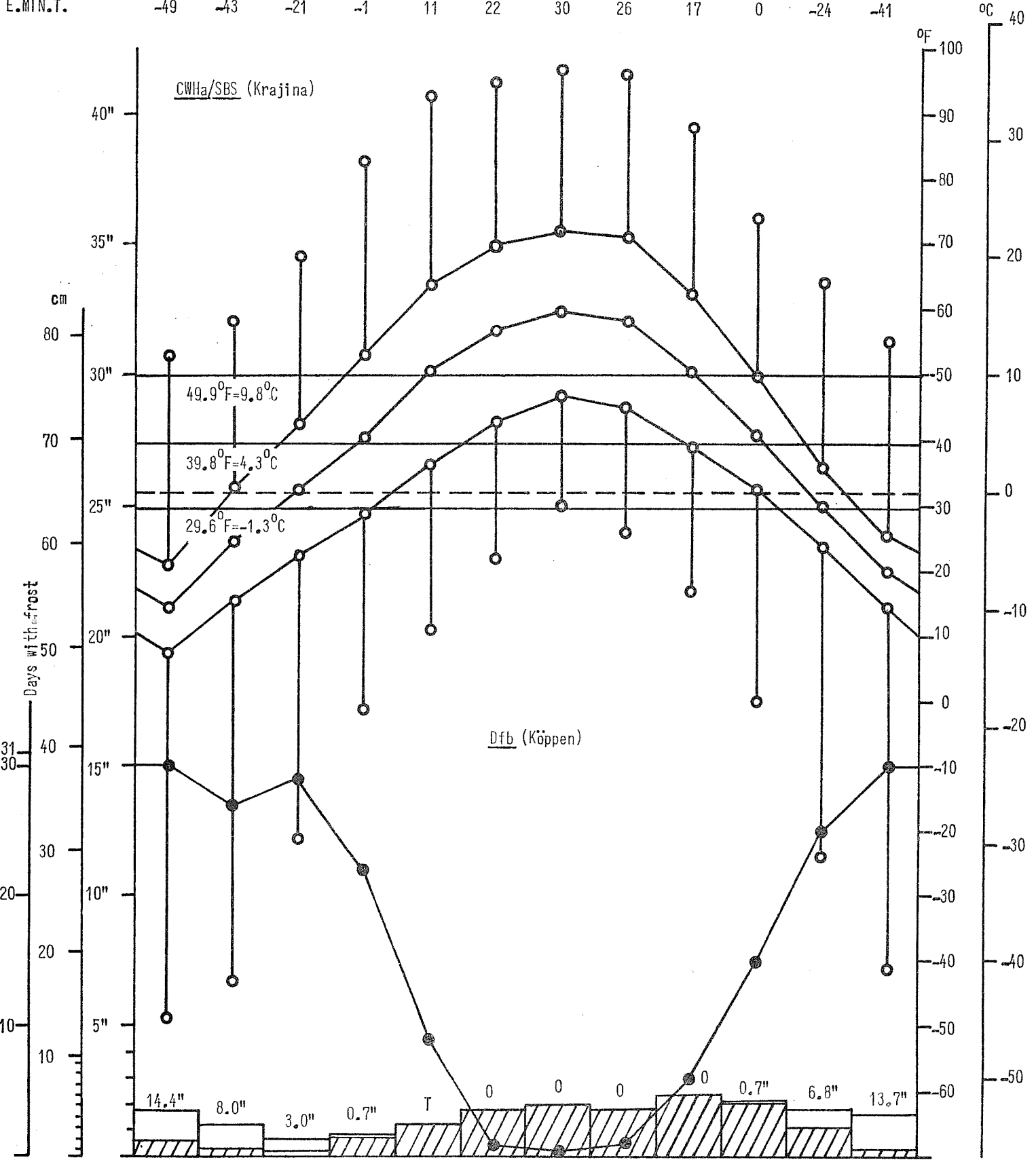


Days with frost	30	28	30	24	13	5	1	2	10	19	28	31
M.M.T.P.	1.90	1.10	0.88	0.81	1.38	1.74	1.89	1.64	1.54	2.18	2.13	2.19
MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

NEW HAZELTON 55°14'N, 127°36'W, 1030' ASL. Record: 25-56 years.

Months above 50°F: 5, below 32°F: 4, A.M.T.P.: 19.28", A.M.S.F.: 47.3", snow % A.M.T.P.: 24.53, days with frost, yearly: 195.

E.MAX.T.	53	58	68	83	93	95	97	96	88	74	64	55
M.D.MAX.T.	21.0	33.0	42.6	52.8	63.7	69.2	72.1	70.7	62.3	49.9	36.1	25.5
M.D.T.	14.3	24.3	32.5	40.8	50.1	56.2	59.4	58.0	50.4	41.3	30.0	20.0
M.D.MIN.T.	7.5	15.5	22.4	28.8	36.4	43.0	46.6	45.2	38.6	32.5	23.9	14.3
E.MIN.T.	-49	-43	-21	-1	11	22	30	26	17	0	-24	-41



Days with frost	30	27	29	22	9	1	*	1	6	15	25	30
M.M.T.P.	1.73	1.13	0.59	0.82	1.22	1.81	2.00	1.82	2.42	2.24	1.81	1.69
MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Kwun Creek - partial species list

trees:

Abies lasiocarpa
Betula papyrifera
Picea engelmannii
P. glauca
Pinus contorta
Populus tremuloides
P. trichocarpa
Tsuga heterophylla

shrubs:

Alnus sinuata
A. tenuifolia
Lonicera involucrata
Menziesia ferruginea
Oplopanax horridum
Ribes glandulosum
R. lacustre
Rubus parviflorus
R. spectabilis (occasional)
Salix bebbiana
Sambucus racemosa (rare)
Sorbus scopulina
S. sitchensis
Vaccinium alaskaense (rare)
V. membranaceum
V. ovalifolium
Viburnum edule (occasional)

herb
layer:

Aconitum delphinifolium
Actaea rubra
Anemone richardsonii
Angelica genuflexa
Arnica cordifolia
Athyrium filix-femina
Caltha leptosepala
Chrysosplenium tetrandrum
Clintonia uniflora
Cornus canadensis
Cystopteris montana
Dryopteris austriaca
Empetrum nigrum
Epilobium alpinum
E. angustifolium
Equisetum arvense
E. pratense
E. fluviatile
E. sylvaticum
Gymnocarpium dryopteris
Heracleum lanatum (occasional)
Linnaea borealis
Listera cordata
Lycopodium annotinum
Mitella nuda
M. pentandra
Moneses uniflora
Osmorhiza chilensis
Parnassia fimbriata
Petasites palmatus

- herb Polygonum viviparum
 layer Prenanthes alata
 (cont.): Pyrola asarifolia
P. minor
P. secunda
P. virens
Rubus pedatus
Saxifraga lyallii
S. mertensiana
Senecio triangularis
Streptopus amplexifolius
S. roseus (rare)
Thalictrum occidentale
Tiarella trifoliata
Valeriana sitchensis
Veratrum viride
Viola glabella
V. orbiculata
- bryo- Bryum sandbergii
 phytes: Dicranum fuscescens
Hylocomium splendens
Hypnum circinale (rare)
Lophozia spp.
Pleurozium schreberi
Pohlia nutans
Ptilidium pulcherrimum
Ptilium crista-castrensis
Rhizomnium perssonii
Sphagnum spp.
- lichens: Alectoria americana
A. sarmentosa
Cladonia gracilis
C. multiformis
C. rangiferina
C. squamosa
C. sylvatica
C. cornuta
Hypogymnia spp.
Nephroma arcticum
Peltigera apthosa
P. malacea
P. polydactyla
Platismatia glauca

7.
(cont.)

2

Soil

Community Reference Number	Soil type	Other notes
1	ABC F ₅	Dystric Brunisol
2	AGC/ABC P ₁ /F ₅	Gleyed Brunisol
3	ABC F ₅	Brunisolic Gray Brown
4	AGC/ABC P ₁ /F ₅	Gleyed Brunisol
5	AC I ₂	Regosol
6	ABC F ₅	Mini Podzol → Humo-Ferric Podzol
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

9. Landscape

1. General Landscape (give brief description) Mostly gently dissected south facing subalpine uplands (and a little of alpine uplands).

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2. Relief Type

	Flat	Undulating (0)-200 m.	Hilly 200-1000 m.	Mountainous > 1000 m.	%
Sharply dissected				10	10
Gently dissected				90	90
Incised				-	
Skeletonised				-	
%				100	100%

3. Special landscape features (list)

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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)

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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		
Standing		
Running	X	

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps		X	X	
Ponds	X		X	
Lakes				

3. Running Water

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

4. Special freshwater features

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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

Bulkley River

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

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

Cystopteris montana is occurring mainly in the proximity of the Kwun Creek.

15. Exceptional Interest of IRP Area*

Relatively very typical ESSF in its most western distribution..... (east of the Bulkley River). Conservation of this area is highly recommendable for better understanding of reforestation practices in similar areas of this region.

16. Significant Human Impact

1. General: None in entire IBP Area* X
 None in part of IBP Area* only the lowest elevations are affected a little by logging
 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					?	
Pesticides					X	
Introductions — plants					X	
Introductions — animals					X	
Fire			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 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								
Fauna			X	X								
Non-living			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 M/3 E

3. Aerial photographs for the IBP Area available?

For whole area ^X For part of area None

19. Other Relevant Information

This area is complementary to the Boulder Creek area. However it is much cooler in the winter and evidently with less snow, therefore no Abies amabilis, no Tsuga mertensiana and only very little of Tsuga heterophylla. Very useful area for teaching of forestry practices.

Vladimir Krajina, J. Pojar
 V. J. Krajina, J. Pojar,
 Signed
 (Surveyor) C. Parsons