

APPLICATION FOR ECOLOGICAL RESERVE

1. Legal description of the area (or general "Metes and bounds" description)

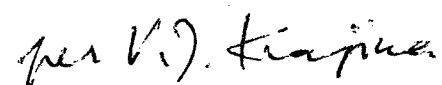
2. Geographical location (relate to nearest settlement, mountain, river, etc.)
 Swampy meadows, Harris Creek Mainline at the Delta area of the
 San Juan River, Vancouver Island.

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

4. Approximate total acreage.
 77 acres

5. Purpose of the reserve.
 To conserve sedge meadows which are the winter home for a couple
 of families of trumpeter swans.
 - (a) Primary (state acreage)
 77 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.
 No trees are growing in these swamps. Willows are represented mainly by Salix sitchensis; it has no commercial value except for hunters who should not be allowed to hunt here.


 Signature G.W. Coombs, J.S. Nichols
 I.B.P. Surveyor
 and T.C. Brayshaw

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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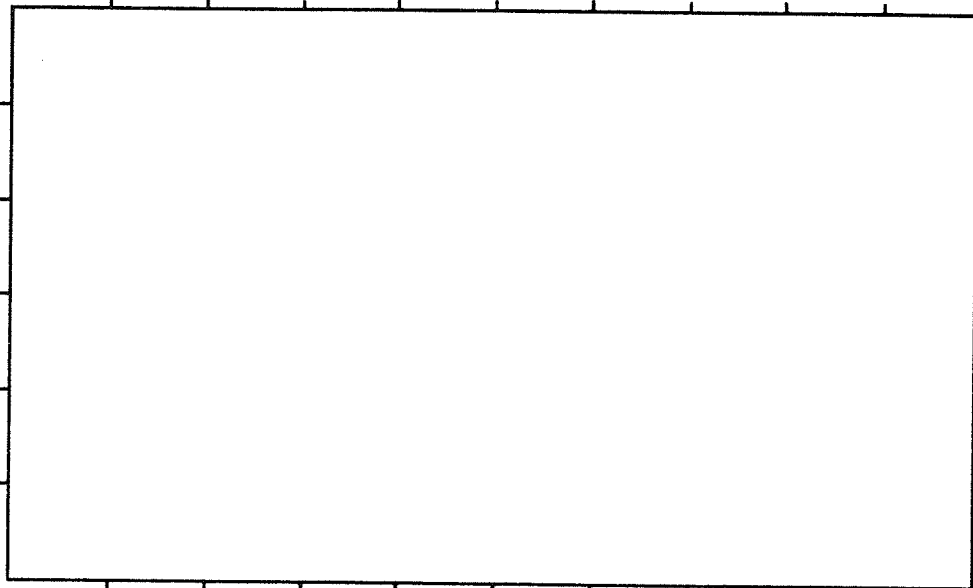
For Data
Centre Use
only

1.

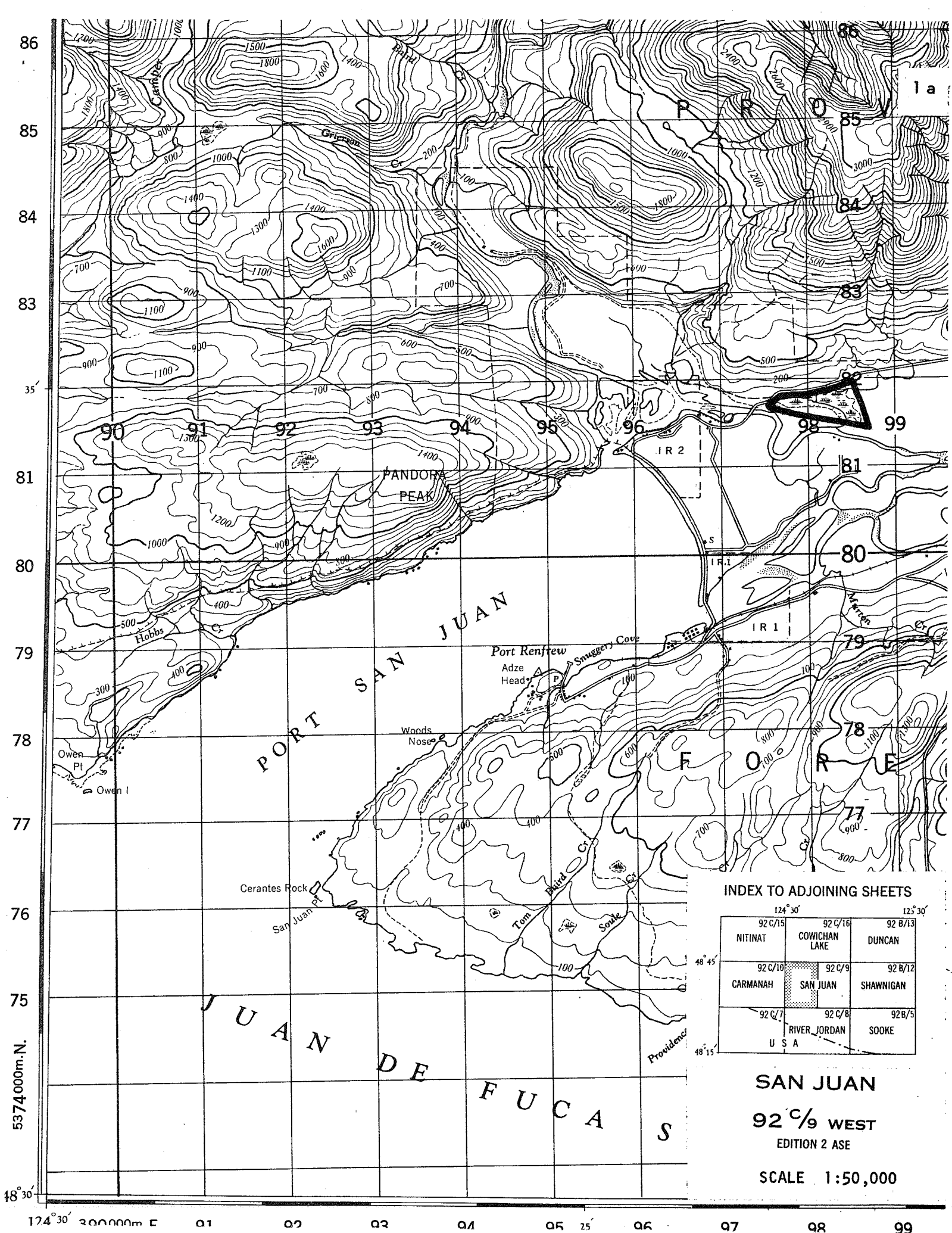
- *G.W. Coombs, **J.S. Nichols and ***T.C. Brayshaw
1. Name of surveyor
2. Address of surveyor
 *Registered Forester, B.C. Forest Products Ltd., Port Renfrew, B.C. V0S 1K0
 (Tel: 647-5511)
 **Registered Forester, 1555 Westlock Rd., R.R. #1, Duncan, B.C.
 ***Provincial Museum, Victoria, B.C.
3. Check Sheet completed (a) on site^X..... (b) from records^X.....
4. Date Check Sheet completed November 11, 1974

2.

1. Name of IBP Area Swampy meadows, Harris Creek Mainline (Mile 1) at the Delta area of the
 San Juan River, Vancouver Island
2. Name of IBP Subdivision (or serial letter) CWHb
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.



INDEX TO ADJOINING SHEETS

124° 30'			125° 30'		
92 C/15	92 C/16	92 B/13			
NITINAT	COWICHAN LAKE	DUNCAN			
48° 45'					
92 C/10	92 C/9	92 B/12			
CARMANAH	SAN JUAN	SHAWNIGAN			
48° 15'					
92 C/7	92 C/8	92 B/5			
U S A	RIVER JORDAN	Sooke			

SAN JUAN

92 C/9 WEST

EDITION 2 ASE

SCALE 1:50,000

3. Location of IBP Area*

1. Latitude..... 48^o 34.8-35.07' N Longitude..... 124^o 22.33-23.33' W
2. Country Canada
- State or Province British Columbia County San Juan
- (State or Province County)

4. Administration

- National 1. Official category Crown Land: vacant: 22/25
2. Address of administration British Columbia Department 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) 77 acres
2. Altitude (state units of measurement) Maximum 20' (6 m)
- Minimum < 20' (6 m)

6. Climate Cfb (after Köppen/Trewartha)

Nearest climatological station: (on the western coast of Vancouver Island)

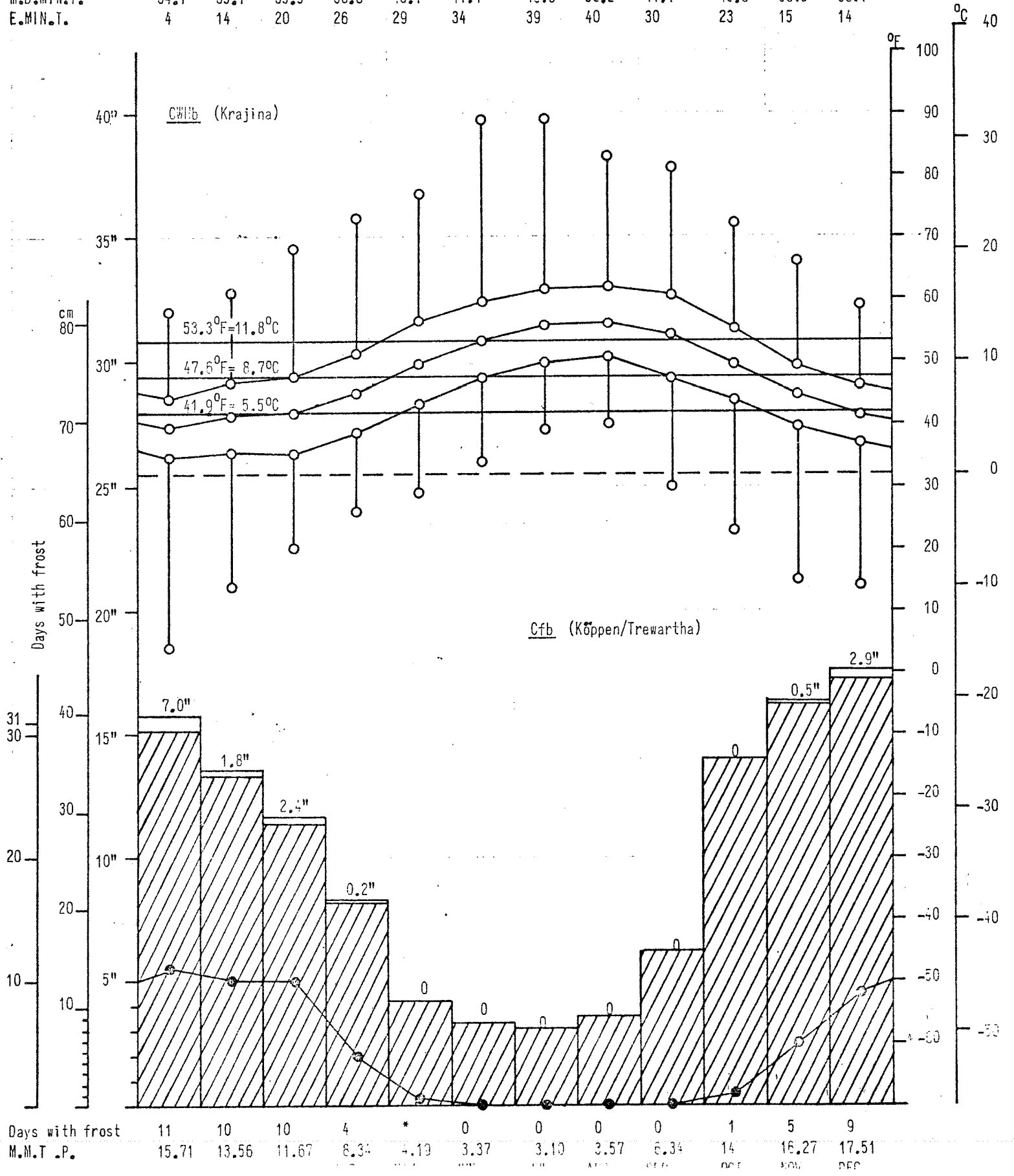
1. Name Pachena Point
2. Climatological station on IBP Area*? Yes No X
3. If (2) not, distance from edge of IBP Area* (state units) 35 mi.
4. Direction from IBP Area* WNW
5. Additional data sheet attached? Yes X No

Pachena Point

PACHENA POINT 48°43'N, 125°06'W, 150' ASL. Record: 44-47 years.

Months above 50°F: 4, below 32°F: 0, A.M.T.P. 117.63", A.M.S.F. 14.8", snow % A.M.T.P.: 1.25. days with frost, yearly: 50.

E.MAX.T.	58	61	68	73	77	89	89	83	81	72	66	59
M.D.MAX.T.	44.0	46.7	47.7	51.3	56.2	59.2	61.7	61.7	60.5	55.2	49.4	46.0
M.D.T.	39.4	41.2	41.7	44.9	49.7	53.3	55.9	56.0	54.1	49.5	44.5	41.4
M.D.MIN.T.	34.7	35.7	35.5	38.6	43.1	47.4	49.9	50.2	47.7	43.9	39.5	36.7
E.MIN.T.	4	14	20	26	29	34	39	40	30	23	15	14



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	M	2	2		Caricetum lyngbyei	
2	1	M	2	2		Deschampsietum caespitosae	
3	1	M	2	2		Lysichito (americani) - Caricetum obnuptae	
4	1	G	2	1		Roso (nutkanae) - Salicetum sitchensis	
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

7.
(cont.)

2

Soil

Community Reference Number	Soil type	Other notes
1	AC/AGC ^I ₂ /P ₁	Gleyed Regosol
2	AC/AGC ^I ₂ /P ₁	Gleyed Regosol
3	AGC P ₁	Gleysol
4	AGC P ₁	Gleysol
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

9. Landscape

1. General Landscape (give brief description)
 River Delta strongly affected by brackish water.

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)

10. Coastline of IBP Area* neighbouring but not included in the proposed 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) estuary.....

5. Tide. Maximum range (state units of measurement) ...affects the proposed area.....

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				
Ponds				
Lakes				

3. Running Water

	Permanent	Intermittent
Springs, cold		
Springs, hot		
Streams		
Rivers	X	

one arm of Delta of the San Juan River

4. Special freshwater features
 subjected to frequent flooding and affected by tides

12. Salt and Brackish Water within IBP Area*

Salt Lakes	<input type="checkbox"/>	Lagoon	<input type="checkbox"/>	<input type="checkbox"/>
Estuaries	X	Salt pools	<input type="checkbox"/>	<input type="checkbox"/>

13. Adjacent Water Bodies (not within IBP Area*)

1. Fresh Lake River Stream
 San Juan River

2. Salt and Brackish

Estuary	Salt lake	Salt pool	Lagoon	Ocean		
				X		

Port San Juan (Bay)

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		X	X	X	X	X		
Reptilia												
Amphibia												
Pisces												
Insecta												

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

Winter home for a couple of families of trumpeter swans (Cygnus buccinator).
 Many varieties of waterfowl, Canadian river otter and mink are
 present here throughout the year.

.....

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

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

Lilaeopsis occidentalis

.....

15. Exceptional Interest of IBP Area*

A very important estuary for many birds and especially
 for trumpeter swans.

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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			?			
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					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.

List attached? Yes No 92 C/9 West Half

3. Aerial photographs for the IBP Area available?

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

19. Other Relevant Information

No hunting would help to conserve the waterfowl.

per V.J. Krajina
 Signed G.W. Coombs and J.S. Nichols
 (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.)
Oktwanch River valley, opposite to Holiday Creek and Waring Peak, north of Muchalat Lake, Vancouver Island.

3. Indicate the biogeoclimatic zone of which the reserve is representative.
CWH (probably CWHb)

4. Approximate total acreage.
361 acres

5. Purpose of the reserve.
Douglas-firs (DBH 65-100"), up to about 650 years old and at least one of them 277' tall.
 - (a) Primary (state acreage)
361 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.

Abies amabilis

Vlad. J. Krajina
Signature H.L. Roemer, Dick Kossick
I.B.P. Surveyor
and V.J. Krajina