

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.)

Rugged Point

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

CWHb

4. Approximate total acreage.

3280 acres

5. Purpose of the reserve.

To conserve:

1) an exposed west coast population of Douglas-fir

2) sand beaches which show vegetation and soils in various stages of ecological succession

(a) Primary (state acreage)

830 acres

(b) Others if any (state acreage)

(c) Buffer areas (state acreage)

2450 acres

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.

Pseudotsuga menziesii var. menziesii

Picea sitchensis

Thuja plicata

Tsuga heterophylla

Pinus contorta

Abies amabilis

Signature

R M Annas
Darcy DeHart, R. M. Annas,

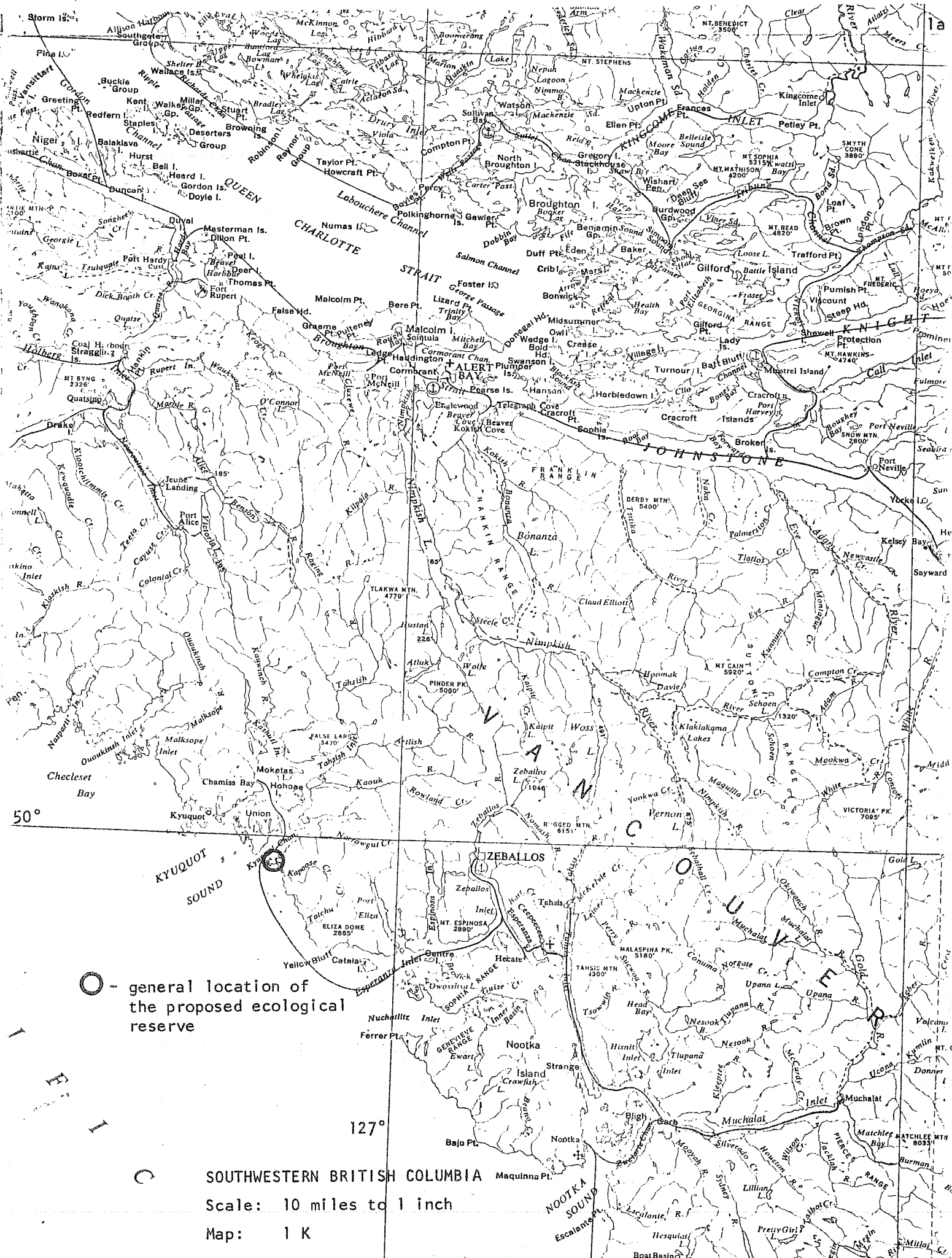
I.B.P. Surveyor K. Klinka
Klinka

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	
1.	<p>1. Name of surveyor R. M. Annas, K. Klinka, D. DeHart</p> <p>2. Address of surveyor Department of Botany University of British Columbia Vancouver, B. C.</p> <p>3. Check Sheet completed (a) on site <input checked="" type="checkbox"/> (b) from records <input checked="" type="checkbox"/></p> <p>4. Date Check Sheet completed October 22, 1974</p>	For Data Centre Use only
2.	<p>1. Name of IBP Area Rugged Point, western coast of Vancouver Island</p> <p>2. Name of IBP Subdivision (or serial letter) CWHb</p> <p>3. Map of IBP Area* showing boundaries attached? Yes <input checked="" type="checkbox"/> No</p> <p>4. Sketch map of IBP Area*. Please mark direction of north, the scale and grid numbers where applicable.</p> <div style="border: 1px solid black; height: 250px; width: 100%; margin-top: 10px;"></div>	
	<p>* For "IBP Area", read IBP Area and/or IBP Subdivision.</p>	



○ - general location of the proposed ecological reserve

SOUTHWESTERN BRITISH COLUMBIA

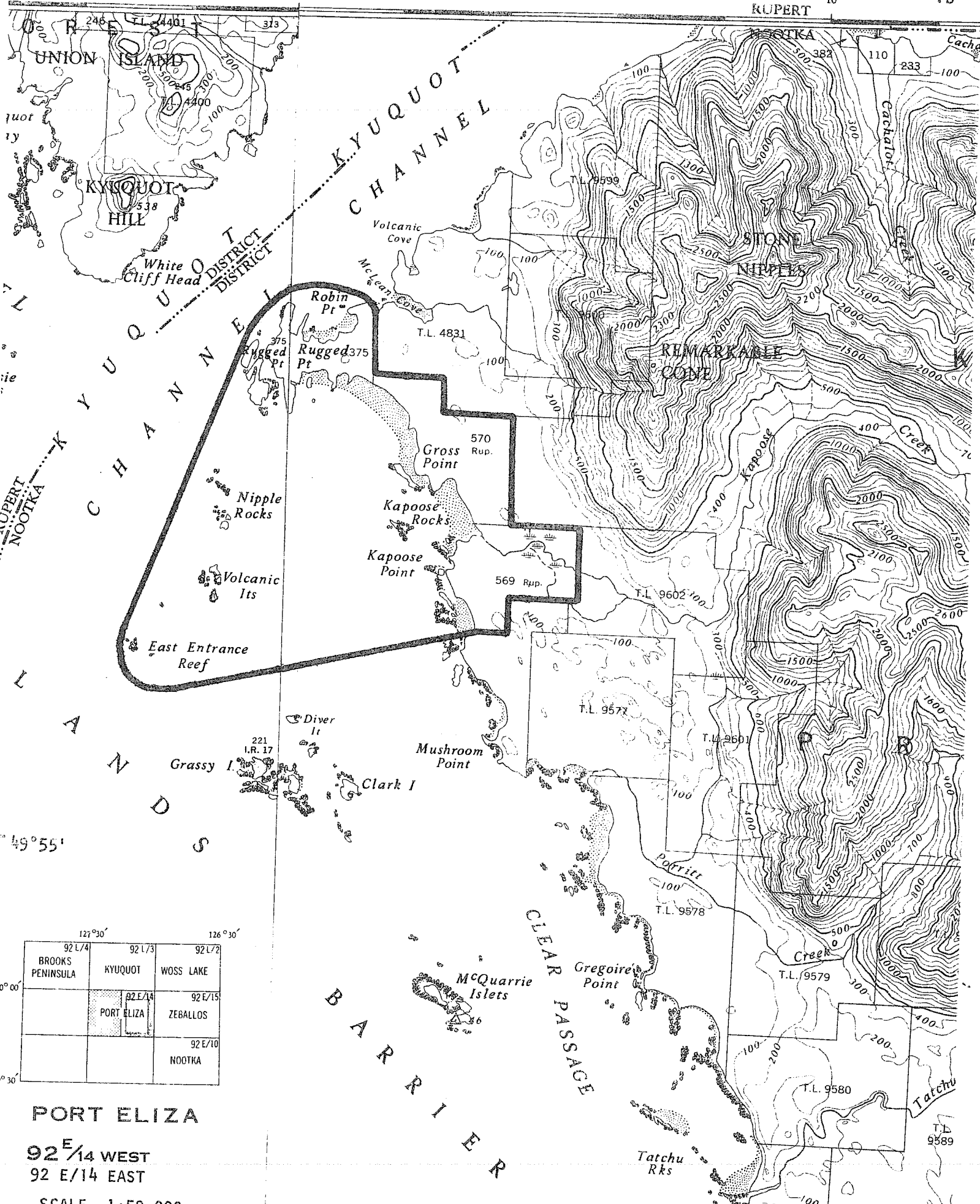
Scale: 10 miles to 1 inch

Map: 1 K

127°15'

RUPERT 10'

1b



92 L/4	92 L/3	92 L/2
BROOKS PENINSULA	KYUQUOT	WOSS LAKE
	92 E/14	92 E/15
	PORT ELIZA	ZEBALLOS
		92 E/10
		NOOTKA

PORT ELIZA

92^E/14 WEST
92 E/14 EAST

SCALE 1:50,000

3. Location of IBP Area*

1. Latitude 49 ° 56' 20" - 58' 20" N Longitude 127 ° 12' 20" - 15' 40" W
2. Country Canada
- State or Province British Columbia County Alberni
- (State or Province County)

4. Administration

- National 1. Official category Crown Lands
2. Address of administration 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*

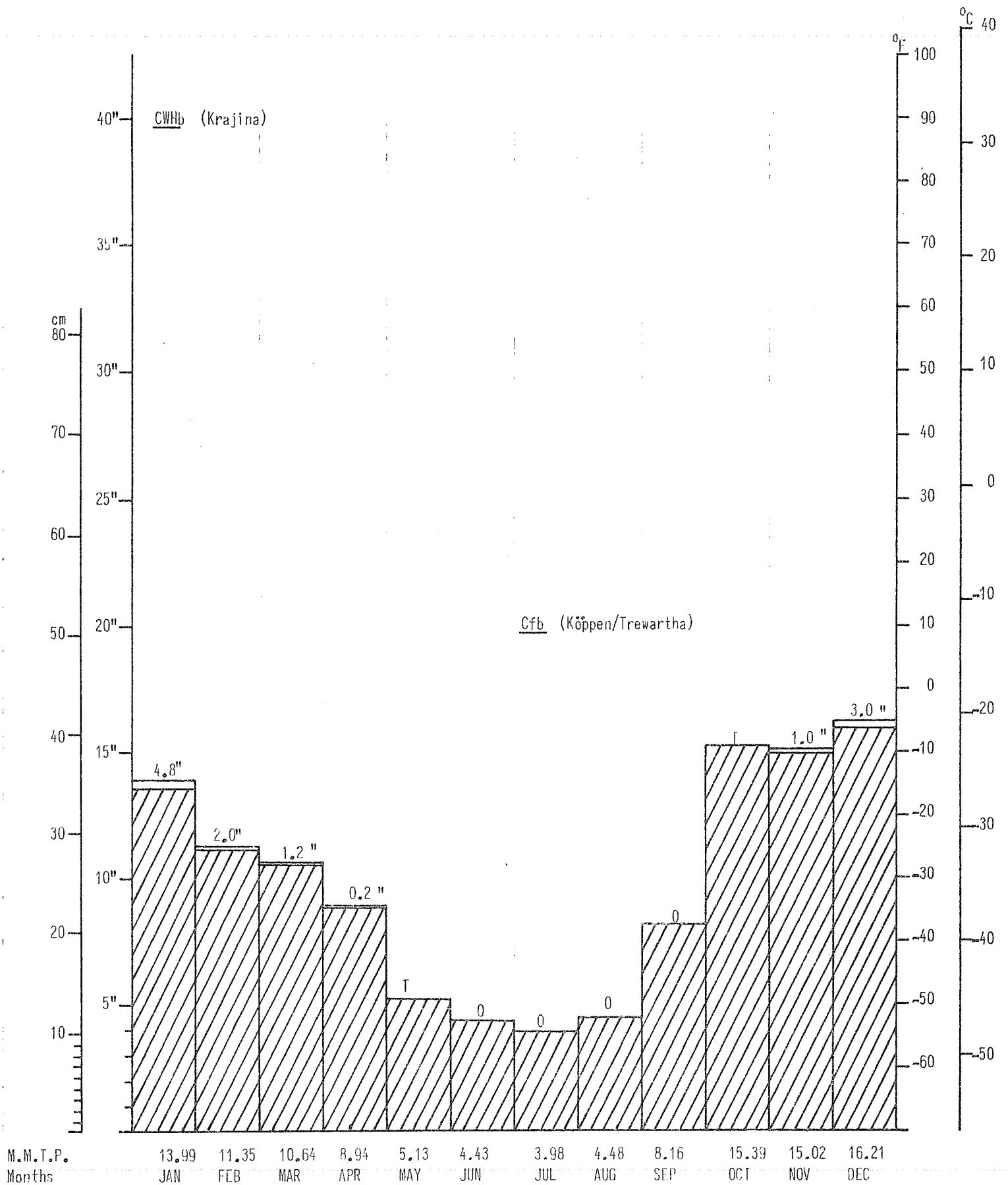
1. Surface area (state units of measurement) 3280 acres (primary=830 acres)
2. Altitude (state units of measurement) Maximum 100 ft.
Minimum 0 ft.

6. Climate

Nearest climatological station :

1. Name Kyuquot
2. Climatological station on IBP Area*? Yes No X
3. If (2) not, distance from edge of IBP Area* (state units) 10 miles
4. Direction from IBP Area* W.N.W.
5. Additional data sheet attached? Yes X No

KYUQUOT 50°02'N, 127°22'W, 10' ASL. Record: 26-27 years. (adjusted).
 A.M.T.P. 117.72", A.M.S.F. 116.50", snow % A.M.T.P.: 9.90.



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 sitchensis</u> - <u>Maianthemum dilatatum</u> ass.	
2	1	A	1	7	a	<u>Picea sitchensis</u> - <u>Gaultheria shallon</u> ass.	
3	1	A	1	7	a	<u>Picea sitchensis</u> - <u>Eurhynchium oregonum</u> ass.	
4	1	A	1	7	a	<u>Picea sitchensis</u> - <u>Rubus spectabilis</u> ass.	
5	1	A	1	7	a	<u>Pinus contorta</u> - <u>Gaultheria shallon</u> ass.	
6	1	A	1	7	a	<u>Thuja plicata</u> thickets	
7	1	A	1	7	a	<u>Tsuga heterophylla</u> - <u>Picea sitchensis</u> ass.	
8	1	A	1	7	a	<u>Picea sitchensis</u> - <u>Carex</u> spp. ass.	
9	1	A	1	7	a	<u>Picea sitchensis</u> - <u>Polystichum munitum</u> ass.	
10	1	A	1	7	a	<u>Thuja plicata</u> - <u>Tsuga heterophylla</u> - <u>Gaultheria shallon</u> forest type	
11						Non-forested communities occurring on exposed beach sands and rocky outcrops	
12						were not surveyed	
13							
14							
15							
16							
17							
18							
19							

7.
(cont.)

2

Soil

Community Reference Number	Soil type	Other notes
1	A/ABC O/F ₅	Lithic Folisol to Lithic Ferro-Humic Podzol
2	AC/ABC I ₂ /F ₅	Orthic Regosol to Mini Ferro-Humic Podzol
3	AC/ABC I ₂ /F ₅	Orthic Regosol to Mini Ferro-Humic Podzol
4	ABC F ₅	Mini to Orthic Ferro-Humic Podzol
5	A/ABC O/F ₅	Lithic Folisol to Lithic Mini Ferro-Humic Podzol
6	A/ABC O/F ₅	Lithic Folisol to Lithic Mini Ferro-Humic Podzol
7	ABC/AGC F ₅ /P ₁	Orthic to Gleyed Ferro-Humic Podzol
8	AC/AGC I ₂ /P ₂	Gleyed Regosol
9	AGC/ABC P ₂ /F ₅	Gleyed Mini Ferro-Humic Podzol to Orthic Humic Gleysol
10	AC F ₃ /F ₅	Proto Rankers, Lithic Regosols to Folisols
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

9. Landscape

1. General Landscape (give brief description) Rock and beach shoreline with adjacent marine terrace.

2. Relief Type

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

3. Special landscape features (list) Chain of rock islets offshore adds some protection to forest communities from salt spray.

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
20			80				

3. Physiography. % of coast

Cliffed	Sloping	Flat
20	80	

4. Special Coastal Features (list) Rock islets offshore.
Sandy beaches.
Rocky coastline with small tidal pools containing a variety of marine life.

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				
Lakes				

3. Running Water

	Permanent	Intermittent
Springs, cold		
Springs, hot		
Streams	X	
Rivers		

4. Special freshwater features

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12. Salt and Brackish Water within IBP Area*

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

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

1. Fresh Lake River Stream

2. Salt and Brackish

Estuary	Salt lake	Salt pool	Lagoon	Ocean		
				X		

Pacific 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		
Aves		X						X		X		
Reptilia		?										
Amphibia		X						X		X		
Pisces		X						X		X		
Insecta		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				
herbs	X	X									
grass		X									
Gymnospermae		X			X	X					
Pteridophyta		X									
Bryophyta		X									
Lichens and Algae		X									

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

Pseudotsuga menziesii var. menziesii in its most western outposts
on Vancouver Island.

15. Exceptional Interest of IBP Area*

Unusual population of exposed west coast Douglas-fir.
Area contains ecosystems in various stages of ecological succession
developing on base-rich parent materials.

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			
Plantation						?
Hunting			X			
Removal of predators					X	
Pesticides					X	
Introductions — plants					X	
Introductions — animals					X	
Fire					X	
Permanent habitation						?
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 ^X

2. List main maps available for the IBP Area.

List attached? Yes No 92 E/14 West Half
92 E/14 East Half

3. Aerial photographs for the IBP Area available? 1 K

For whole area ^X For part of area None

19. Other Relevant Information

One of the few remaining undisturbed west coast sand beaches. Other areas such as Long Beach are exposed to recreation overuse and would be unsuitable for any studies and therefore the conservation of this area will be very useful as a benchmark. This is probably the only locality of Douglas-fir reaching the coast of Pacific Ocean on Vancouver Island. Genetically its population is of great significance.

Signed ^{R M Annas} Darcy DeHart, R. M. Annas,
(Surveyor) Karel Klinka

Karel Klinka