

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

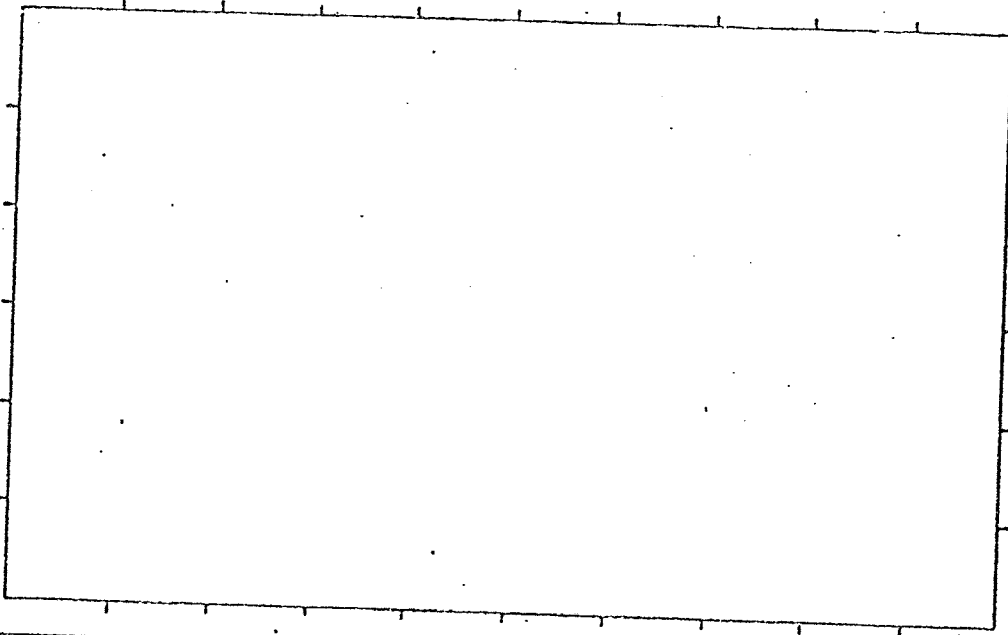
Serial Number

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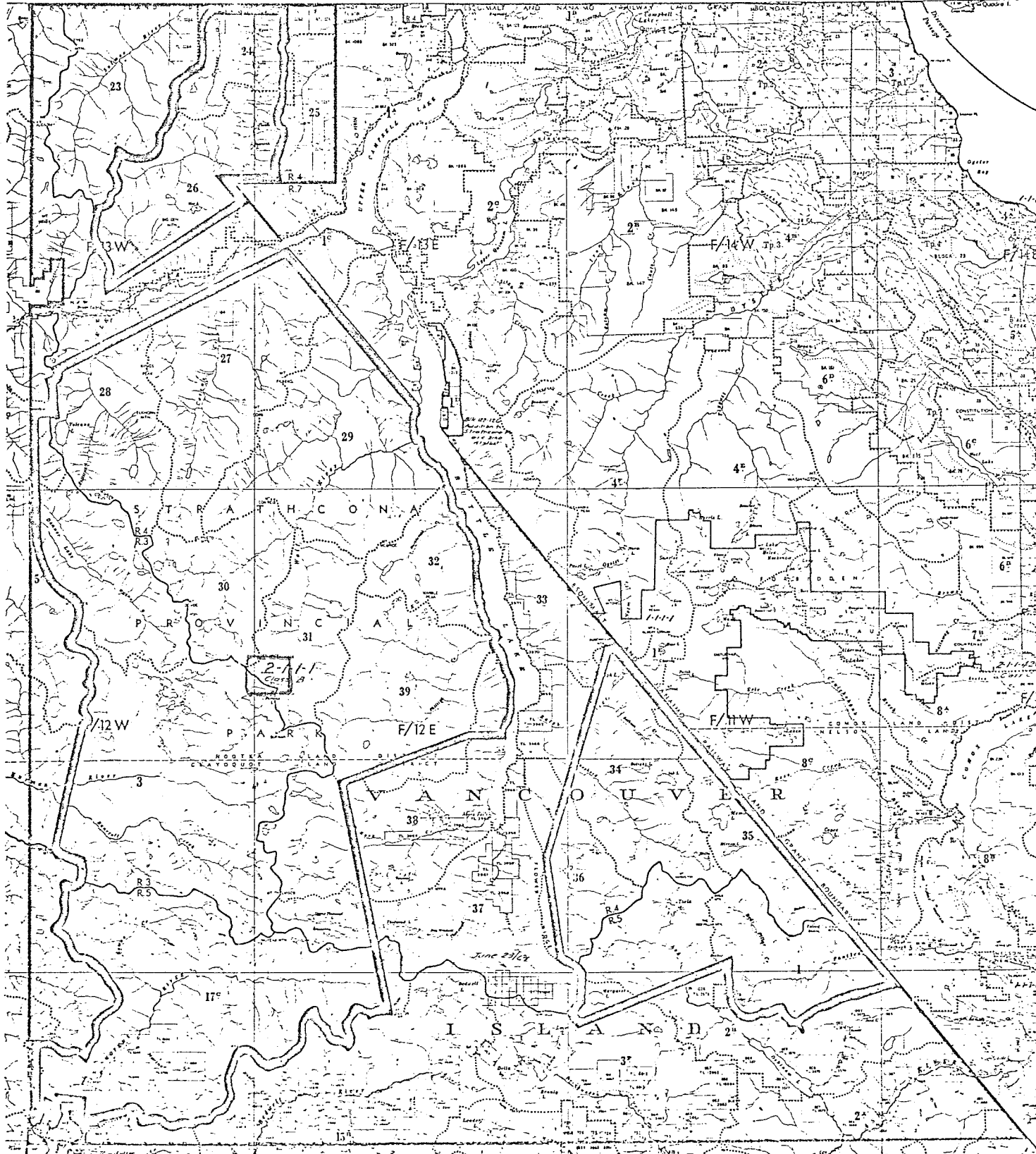
For Data Centre Use only

1. 1. Name of surveyor V. J. KRAJINA-V. BEDNAR-S. KOJIMA
2. Address of surveyor DEPARTMENT OF BOTANY
UNIVERSITY OF BRITISH COLUMBIA
VANCOUVER 8, B.C.
3. Check Sheet completed (a) on site ✓ (b) from records
4. Date Check Sheet completed AUGUST, 1966

2. 1. Name of IBP Area STRATHCONA PROVINCIAL PARK
2. Name of IBP Subdivision (or serial letter) STRATHCONA PARK - CENTRAL
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.



3. Location of IBP Area*

1. Latitude ⁴⁹ 39-40' N/S Longitude ¹²⁵ 43-45' *#1W*

2. Country CANADA

State or Province BRITISH COLUMBIA County VANCOUVER ISLAND

(State or Province County)

4. Administration

National 1. Official category PROVINCIAL PARK - NATURE CONSERVANCY AREA

2. Address of administration B.C. DEPARTMENT OF RECREATION AND CONSERVATION

(PROVINCIAL PARKS), 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)

5. Characteristics of IBP Area*

1. Surface area (state units of measurement) ca. 3sq.mi. (1920 acres) out of 337.5sq.mi. (215,000 acres)

2. Altitude (state units of measurement) Maximum (7219') 2174 m

Minimum (3700') 1128 m

6. Climate *Dife and ET (after Köppen)*

Nearest climatological station:

1. Name TOFINO

2. Climatological station on IBP Area*? Yes No ✓

3. If (2) not, distance from edge of IBP Area* (state units) 30 miles

4. Direction from IBP Area* S.S.i

5. Additional data sheet attached? Yes No ✓

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) acres
	Primary Structural Group	Class	Group	Formation	Sub-Formation		
14/1	1	H	1/2	1		Leotarrheno-Calthetum leutosepalae	2
14/2	1	B	1	7		Nano-Tsugetum mertensianaee	5
14/3	1	A	1	7	a	Abieteto-Streptopetum rosei	120
14/4	1	A	1	7	a	Abieteto-Streptopetum rosei stenanthiosum occidentalis	2 1/2
14/5	1	O	1	2		Rhacomitrietum canescentis	10
14/6	1	B	1	7		Nano-Tsugetum mertensianaee hippuridatosum montanae	1
14/7	1	H	2	1		Caricetum nigricantis	10
14/8	1	H	1	2		Phyllodoceto-Cassiopeetum mertensianaee	50
14/9	1	H	2	1		Vaccinietum deliciosi	10
14/10	1	D	1	4	a	Tsugeto-Vaccinietum membranacei (with <u>Rhododendron albiflorum</u>)	5
14/11	1	F	2	1		Tsugeto-Cladothamnetum pyrrolaeferi	20
14/12	1	A	1	7	a	Abieteto-Tsugetum mertensianaee	50
14/13	1	F	1	1		Tsugeto-Lasiocarpeto-Phyllodocetum arpetriiformis	10
14/14	1	B	1	7		Nano-Abietetum lasiocarphae	5
14/15	1	H	1	2		Cassiopeetum mertensianaee (with <u>Phlox diffusa</u>)	20
14/16	1	H	2	1		Caricetum spectabilis	15
14/17	1	D	1	2	a	Characocypareto-Lysichitetum americani	4
18	3	C	1	3		Caricetum pyrenaiceae	2
19	1	O	1	1		Sphagnetum gignenschnii	1
20	1	O	1	2		Rhacomitrietum heterostichii	20

14

✓

✓

✓

✓

✓

✓

✓

✓

7.
(cont.)

1 (cont.)

Vegetation

C.R.N.	Alliance	Order
1	Leptarrhenion pyrolifoliae	Montio-Cardaminetalia
2	Phyllodoceto-Cassiopion mertensianae	Phyllodoceto-Cassiopetalia
3	Vaccinion alaskaensis	Vaccinietales membranacei
4	Vaccinion alaskaensis	Vaccinietales membranacei
5	Rhacomitrium canescentis	Danthonietales spicatae
6	Phyllodoceto-Cassiopion mertensianae	Phyllodoceto-Cassiopetalia
7	Caricion nigricantis	Salicetalia herbaceae
8	Phyllodoceto-Cassiopion mertensianae	Phyllodoceto-Cassiopetalia
9	Phyllodoceto-Cassiopion mertensianae	Phyllodoceto-Cassiopetalia
10	Vaccinion membranacei	Vaccinietales membranacei
11	Vaccinion alaskaensis	Vaccinietales membranacei
12	Vaccinion alaskaensis	Vaccinietales membranacei
13	Phyllodoceto-Cassiopion mertensianae	Phyllodoceto-Cassiopetalia
14	Phyllodoceto-Cassiopion mertensianae	Phyllodoceto-Cassiopetalia
15	Cassiopion mertensianae	Phyllodoceto-Cassiopetalia
16	Caricion spectabilis	?
17	Lysichitium americanum	Thujetalia plicatae
18	Caricion phaeocephalae	Caricetalia phaeocephalae
19	Sphagnion girgensohnii	?
20	Rhacomitrium heterostichi	Rhacomitrietales

14

7.
(cont.)

2

Soil

Community Reference Number	Soil type	Other notes
1	P ₂ /0	Semiterrestrial anmoor to low moor peaty anmoor or pitchy black peats
2	F ₃ /F ₄ /F ₅	Ranker-like Soils to Humic Podzol Great Group
3	F ₅ /P ₂	Humic Podzol Great Group to Gleysolic Soils
4	F ₅ /P ₂	Humic Podzol Great Group to Gleysolic Soils
5	F ₃	Ranker-like Soils (lithosols)
6	F ₄	A(B)C - Subalpine Intergrades
7	P ₂	Anmoor -like Soils: Snow basin anmoor
8	F ₃ /F ₄ /F ₅	Ranker-like Soils (Subalpine Intergrades)
9	F ₄ /F ₅	Subalpine Intergrades, (Humic Podzol Great Group)
10	F ₅	Humic Podzol Great Group
11	F ₅	Podzol Great Group
12	F ₅	Humic Podzol Great Group
13	F ₃	Ranker-like Soils (lithosols)
14	F ₃	Ranker-like Soils (lithosols)
15	F ₃	Ranker-like Soils (lithosols)
16	F ₃ /P ₂	Ranker-like Soils (lithosols)
17	P ₂ /0	Gleysols-Organic Soils
18	F ₃	Ranker-like Soils (lithosols)
19	0	Shallow organic Soils above unaltered rocks
20	F ₃	? Ranker, on rocks

14

8. Similar Communities in Country (or State)

Community Reference Number	Protected					Protected and Unprotected				
	Abundant	Infrequent	None known	Decreasing	Increasing	Abundant	Infrequent	None known	Decreasing	Increasing
1		✓					✓			
2		✓				✓				
3	✓					✓				
4				✓					✓	
5	✓					✓				
6		✓					✓		✓	
7		✓				✓				
8	✓					✓				
9		✓					✓			
10		✓					✓			
11		✓					✓			
12	✓					✓				
13			✓					✓		
14			✓					✓		
15		✓					✓			
16		✓					✓			
17		✓					✓			
18			✓					✓		
19		✓					✓			
20	✓					✓				

9. Landscape

1. General Landscape (give brief description) Highest Peak on Vancouver Island: Golden Hinde..... (72191) with the glacial Surman Lake and several small lakes, with moraines and glacial drift

2. Relief Type

	Flat	Undulating (0)-200 m.	Hilly 200-1000 m.	Mountainous > 1000 m.	%
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Sharply dissected				70	70
Gently dissected					
Incised					
Skeletonised				30	30
%				100	100%

3. Special landscape features (list) Cliffs, moraines, boulder scree, glacial

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	✓	
Running	✓	

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps	✓		✓	
Ponds				
Lakes	✓		✓	

3. Running Water

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

4. Special freshwater features waterfalls, rapids

12. Salt and Brackish Water within IBP Area*

	None
Salt Lakes	[]
Lagoon	[]
Estuaries	[]
Salt pools	[]

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				✓								
Aves				✓								
Reptilia												
Amphibia												
Pisces				✓								
Insecta												

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

Mammalia: black bear (*Euarctos americanus vancouveri*)

Aves: golden eagle (*Aquila chrysaetos canadensis*), blue grouse (*Dendragapus obscurus fuliginosus*), white-tailed ptarmigan (*Lagopus leucurus*)

Pisces: trout in Burnan Lake

4. Flora

	Species diversity	Abundance of particular species	Rare species	Threatened/relict species	Spp. of biogeographical interest	Exceptional associations	Outstanding specimens				
Angiospermae :											
trees											
shrubs											
herbs											
grass											
Gymnospermae											
Pteridophyta											
Bryophyta											
Lichens and Algae											

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

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15.

Exceptional Interest of IBP Area*

Subalpine and alpine vegetation on highest mountain of Vancouver Island

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16.

Significant Human Impact

1. General : None in entire IBP Area* ✓
 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						
Drainage						
Other soil disturbance						
Grazing						
Selective flora disturbance						
Logging						
Plantation						
Hunting						
Removal of predators						
Pesticides						
Introductions — plants						
Introductions — animals						
Fire						
Permanent habitation						
Recreation and tourism						
Research						

3. Additional details on each type of impact attached?

Yes No

17. Conservation Status

	Protection			Utilisation			Conservation Management			Permitted Research		
	none	partial	total	none	controlled	uncontrolled	none	to alter status	to maintain status	experimental	observational	prohibited
Flora			✓									
Fauna			✓									
Non-living			✓									

18. References

- List major biological/geographical references for the IBP Area.
Sheet attached? Yes No ✓
- List main maps available for the IBP Area. 92F/12 East and West Halves Edition 2ASE Series A721
Buttle Lake, British Columbia, Department of National Defence,
List attached? Yes No ✓ Canada
- Aerial photographs for the IBP Area available?
For whole area ✓ For part of area None

19. Other Relevant Information

Synecological studies are in progress (Krajina, Kojima, Bednar)

Signed *Vladimir J. Krajina*
(Surveyor)
Kristina Bednar