

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

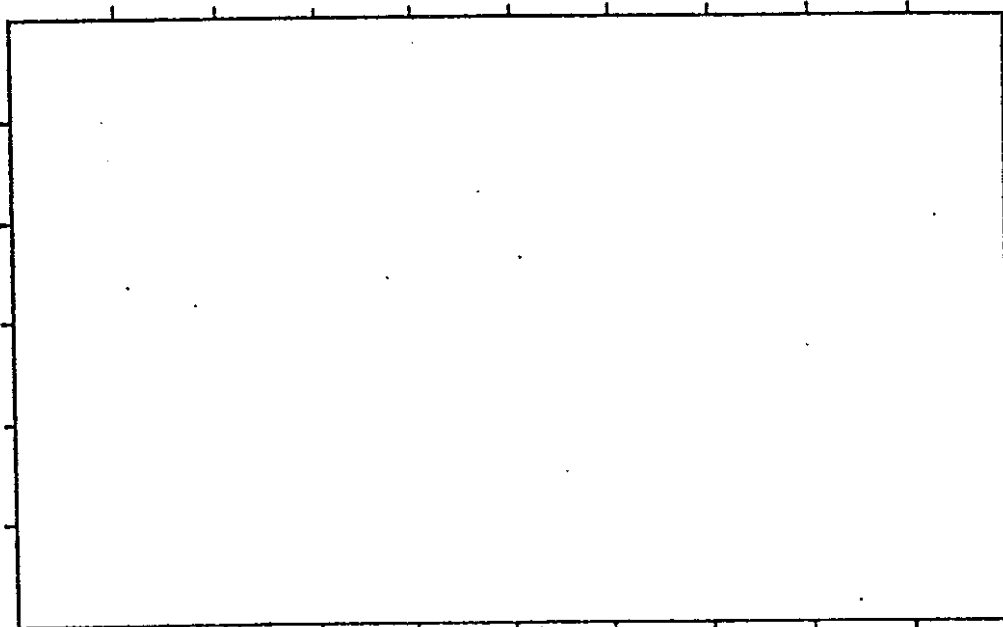
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For Data Centre Use only

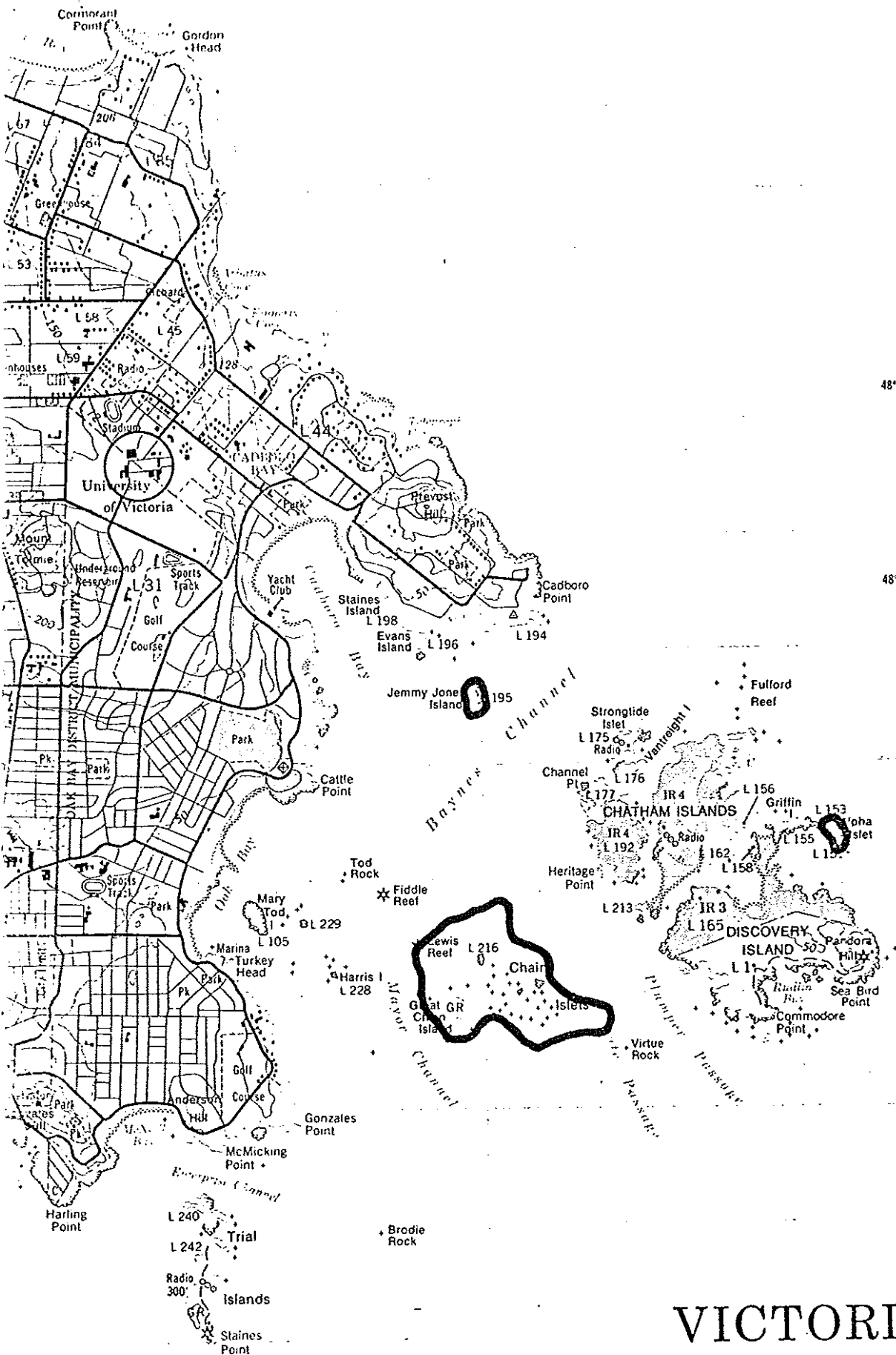
1. 1. Name of surveyor R. W. Campbell*, J.B. Foster**, J. Pojar**
 2. Address of surveyor *B.C. Provincial Museum, Victoria, B.C.
 **B.C. Ecological Reserves Unit, Victoria, B.C.

 3. Check Sheet completed (a) on site (b) from records X
 4. Date Check Sheet completed Sept. 8, 1976

2. 1. Name of IBP Area Oak Bay Islands
 2. Name of IBP Subdivision (or serial letter) CDFa
 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.



H A R B O R

TABLEAU D'ASSEMBLAGE DU SYSTÈME NATIONAL DE RÉFÉRENCE CARTOGRAPHIQUE

124°00'	122°30'	48°45'	92 B/12	92 B/11	USA	48°45'
			92 B/5	92 B/6 VICTORIA	USA	
		48°00'	USA	USA	USA	48°00'
124°00'	122°30'					122°30'

INDEX TO ADJOINING MAPS OF THE NATIONAL TOPOGRAPHIC SYSTEM

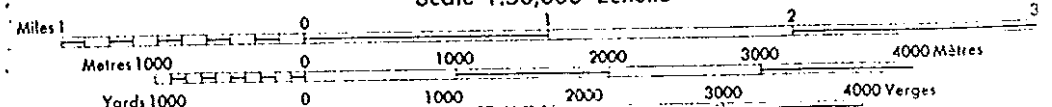
VICTORIA
92 B/6
 EDITION 3
 ANS 138°-N
 SERIES V 791

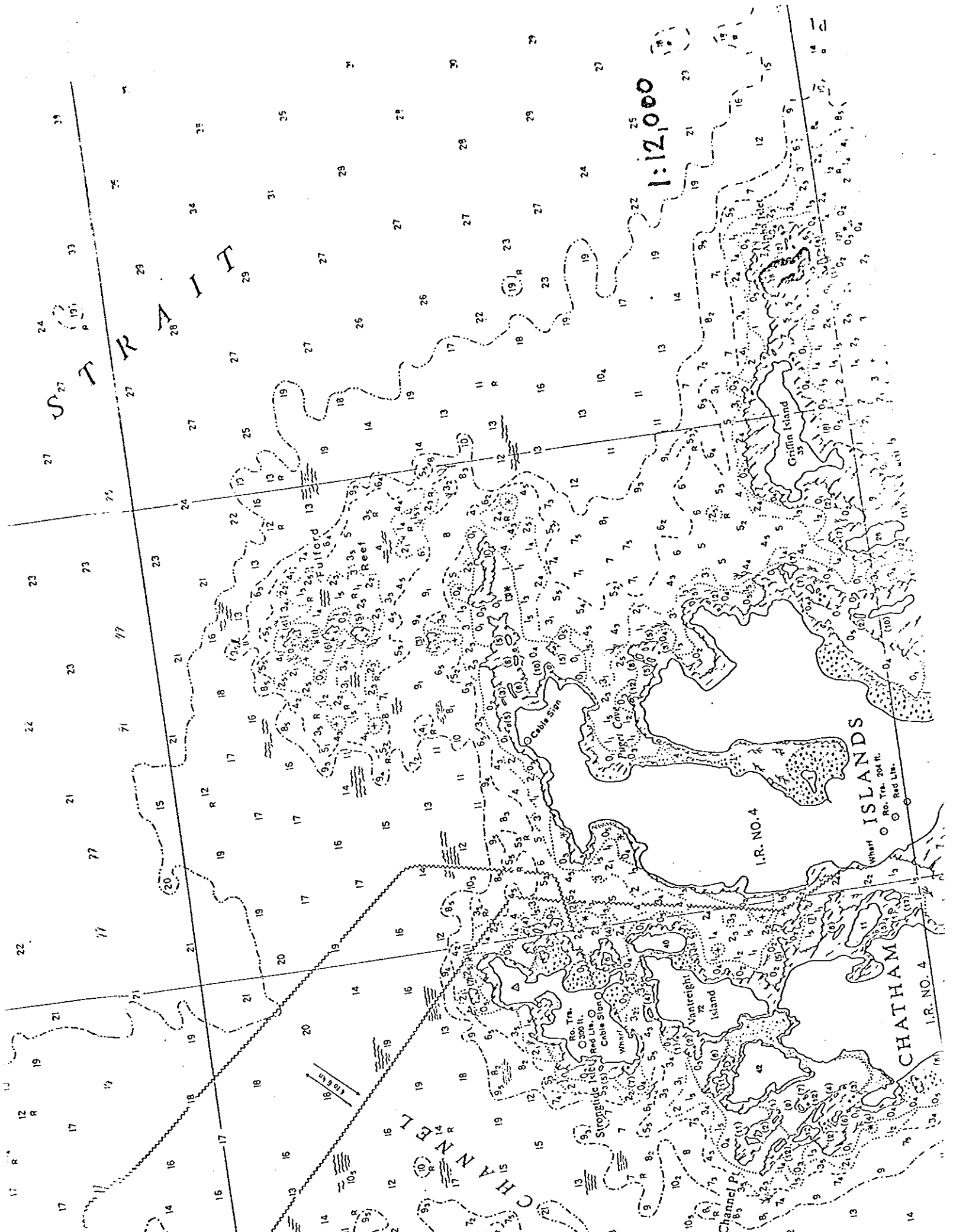
48°25'

VICTORIA

BRITISH COLUMBIA - WASHINGTON

Scale 1:50,000 Échelle





STRAIT

1:12,000

CHATHAM ISLANDS

CHATHAM

I.R. NO. 4

I.R. NO. 4

Wharf
Red Light
Cable Station

FORECAST

Channel Pt

Strongie Islet
Wharf

Manireahi Island

Griffin Island

Cable Station

Foulford Reef

3. Location of IBP Area*

1. Latitude..... 48 ° 25-26.7' N Longitude..... 123 ° 13.6-16.8' W
2. Country Canada
- State or Province British Columbia County Victoria
- (State or Province County)

4. Administration

- National 1. Official category Crown Land
2. Address of administration Land Management Branch
- B.C. Dept. of Environment
- Parliament Buildings
- Victoria, B.C. V8V 1X5
-
-

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) ca 100 ha (247 acres)
2. Altitude (state units of measurement) Maximum 5 m
- -5 fathoms
- Minimum

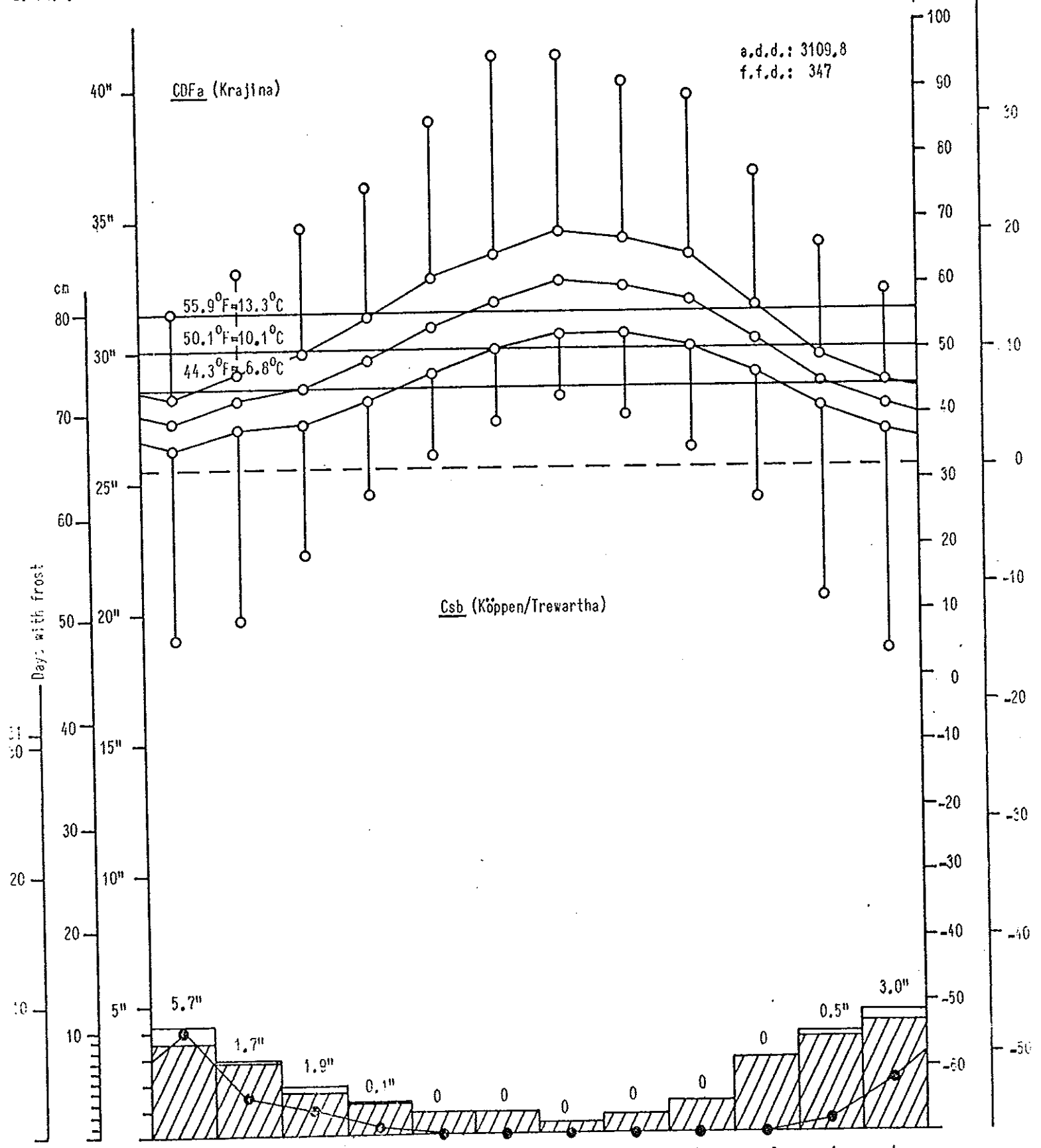
6. Climate

Nearest climatological station :

1. Name Victoria (Gonzales Hill)
2. Climatological station on IBP Area*? Yes No X
3. If (2) not, distance from edge of IBP Area* (state units) 4 km
4. Direction from IBP Area* WSW
5. Additional data sheet attached? Yes X No

VICTORIA GONZALES HTS. 48°25'N, 123°19'W, 228'AGL. Record: 71-73 years.
 Months above 50°F: 6, below 32°F: 0, A.M.T.P. 25.87", A.M.S.F. 12.9", snow % A.M.T.P.: 4.99, days with frost, yearly: 18.

C.MAX.T.	56	62	69	75	85	95	95	91	89	77	66	59
M.D.MAX.T.	43.0	46.9	49.8	55.1	61.0	64.5	68.0	67.3	64.7	56.8	49.0	45.0
M.D.T.	39.3	42.4	44.3	48.7	53.8	57.3	60.2	59.9	57.7	51.6	45.0	41.4
M.D.MIN.T.	35.3	38.0	38.8	42.3	46.5	50.0	52.3	52.4	50.5	46.3	41.1	37.9
E.MIN.T.	6	9	19	28	34	39	43	40	35	27	12	4



Days with frost	8	3	2	*	0	0	0	0	0	0	1	4
M.M.T.P.	4.21	2.98	1.93	1.35	0.84	0.84	0.49	0.77	1.30	2.91	3.73	4.52
	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL

SOME COMMON SPECIES OF THE PLANT COMMUNITIES OF E.R.P. No. 244, OAK BAY ISLANDS:

Note: this list includes only species evident in spring, many more undoubtedly occur.

1. *Xanthoria* - *Parmelia* - *Ochrolechia* (crustose lichen association on exposed, bird-fertilized rock):

<i>Xanthoria candelaria</i>	<i>Parmelia saxatilis</i>	<i>Physcia</i> spp.
<i>Parmelia taractica</i>	<i>Ochrolechia</i> spp.	<i>Haemotomma lapponicum</i> (rare)
2. *Elymus* - *Lathyrus* - driftwood:

<i>Elymus mollis</i>	<i>Cakile edentula</i>	<i>Galium aparine</i>
<i>Lathyrus japonicus</i>	<i>Achillea millefolium</i>	
3. *Cynosurus* - *Camassia* - *Pteridium* (lush grass-forb meadow):

<i>Cynosurus echinatus</i>	<i>Pteridium aquilinum</i>	<i>Lomatium utriculatum</i>
<i>Bromus</i> cf. <i>sitchensis</i> (<i>Deschampsia caespitosa</i>)	<i>Ranunculus occidentalis</i>	<i>L. nudicaule</i>
<i>Festuca rubra</i>	<i>R. californicus</i>	<i>Urtica urens</i>
<i>Luzula campestris</i>	<i>Vicia gigantea</i>	<i>Rumex acetosella</i>
<i>Camassia quamash</i>	<i>Castilleja levisecta</i>	<i>Achillea millefolium</i>
<i>C. leichtlinii</i>	<i>Fritillaris lanceolata</i>	<i>Hypochaeris radicata</i>
<i>Cerastium arvense</i>	<i>Sanicula arctopoides</i>	<i>Taraxacum officinale</i>
	<i>Lomatium dissectum</i>	<i>Plantago lanceolata</i>
4. *Elymus* - *Lomatium* - *Ranunculus* - *Montia* (wet meadow):

<i>Elymus mollis</i>	<i>Ranunculus occidentalis</i>	<i>Urtica urens</i>
<i>Lomatium dissectum</i>	<i>Montia perfoliata</i>	<i>Bromus sitchensis</i>
5. *Sedum* - *Aira* - *Opuntia* (soil pocket/rock crevice association):

<i>Sedum lanceolatum</i> var. <i>nesioticum</i>	<i>Armeria maritima</i>	<i>Plagiobothrys scouleri</i>
<i>S. oreganum</i>	<i>Alchemilla occidentalis</i>	<i>Festuca bromoides</i>
<i>Aira praecox</i>	<i>Stellaria media</i>	<i>Polytrichum piliferum</i>
<i>Opuntia fragilis</i>	<i>Montia fontana</i>	<i>Rhacomitrium</i> spp.
	<i>M. glauca</i>	<i>Tortula</i> spp.
6. *Plantago* - *Grindelia* - *Armeria* (rock outcrop/halophyte association):

<i>Plantago maritima</i>	<i>Armeria maritima</i>	
<i>Grindelia integrifolia</i>	<i>Festuca rubra</i>	
7. *Aira* - *Cerastium* - *Trifolium* (vernal sword; very shallow soil over rock):

<i>Aira caryophyllea</i>	<i>Trifolium microcephalum</i> (and probably additional species)	<i>Camassia quamash</i>
<i>A. praecox</i>	<i>Festuca rubra</i>	<i>Lupinus bicolor</i>
<i>Cerastium arvense</i>	<i>Deschampsia caespitosa</i>	<i>Plectritis congesta</i>
<i>Trifolium oliganthum</i>	<i>D. danthonioides</i>	<i>Collinsia grandiflora</i>
<i>T. tridentatum</i>		<i>Eriophyllum lanatum</i>
8. *Rosa* - *Berberis* - *Symphoricarpos* (shrub thickets):

<i>Rosa gymnocarpa</i>	<i>Rubus procerus</i>	<i>Lomatium dissectum</i>
<i>R. nutkana</i>	<i>Amelanchier alnifolia</i>	<i>Angelica lucida</i>
<i>Berberis aquifolium</i>	<i>Ribes divaricatum</i>	<i>Montia perfoliata</i>
<i>Symphoricarpos albus</i>	<i>Bromus sitchensis</i>	<i>Galium aparine</i>
<i>Salix scouleriana</i>	<i>Erythronium oreganum</i>	

7.
(cont.)

2

Soil

Community Reference Number	Soil type	Other notes
1	I ₂	rock
2	I ₂	saline sandy regosol
3	F ₃ /F ₄	(lithic) sombric brunisol
4	I ₂	gleyed regosol
5	F ₃	lithic sombric brunisol
6	I ₂	regosol
7	F ₃	lithic sombric brunisol
8	F ₄	sombric brunisol
9		
10		- heavy input of guano
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

9. Landscape

1. General Landscape (give brief description) glaciated igneous bedrock with shallow marine deposits and thin soil

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)

treeless islands

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
90	10	<i>some</i>					

3. Physiography. % of coast *DAB*

Cliffed	Sloping	Flat
	70	30

4. Special Coastal Features (list)

5. Tide. Maximum range (state units of measurement) ca 3 m

6. Total length of coastline :

Less than 1 km. 1-10 km. Above 10 km.

11. Freshwater within IBP Area* NONE

1.

	Permanent	Intermittent
General		none
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

.....

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	<input type="checkbox"/>	<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		

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		
Reptilia												
Amphibia												
Pisces												
Insecta												

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

Vertebrates: glaucus-winged gull, pelagic cormorant, pigeon guillemot, oyster-catcher, and for the first time recorded, double-crested cormorant.

.....
 Otter and mink are commonly found on all these islands.

.....
 About 50 harbour seal pull out on the shoals of East Chain Islets.

.....

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

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

Many showy spring wildflowers that occur in abundance within the proposal area are rare or threatened by loss of habitat or overgrazing elsewhere in the province (including *Opuntia fragilis*, *Sanicula arctopoides*, *Myosurus minimus*, *Ranunculus californicus*, etc.).

15. Exceptional Interest of IBP Area*

Largest seabird colony in Gulf of Georgia occurs on Great Chain Island, 1764 pairs of glaucous-winged gull, 185 pairs of pelagic cormorant, 30 pairs of pigeon guillemot nesting here (1974 figures). It would be an excellent place to study ecotypic differentiation in plants.

16.

Significant Human Impact

X

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

(on Great Chain Island)

3. Additional details on each type of impact attached?

Yes NoX.....

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			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. 92 B/6 (Victoria)

List attached? Yes No ^X 1:50,000

3. Aerial photographs for the IBP Area available?

For whole area ^X For part of area None

19. Other Relevant Information

Signed Jim Pojar J.B. Foster
 (Surveyor)
 Jim pojar, J.B. Foster