

APPLICATION FOR ECOLOGICAL RESERVE

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

Thomas Island and associated islets

2. Geographical location (relate to nearest settlement, mountain, river, etc.)

53°03' north, 127°27' west

east side Checleset Bay, south of Bunsby Islands,
north Barrier Islands

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

The Coastal Western Hemlock Zone and bleak maritime islands

4. Approximate total acreage.

40 acres = 17 hectares

5. Purpose of the reserve.

safeguard nesting sites of rare marine birds

- (a) Primary (state acreage)

safeguard nesting sites of rare marine birds

- (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.

Signature

R. W. Campbell
I.B.P. Surveyor

INTERNATIONAL BIOLOGICAL PROGRAMME
SECTION CT : CONSERVATION OF TERRESTRIAL BIOLOGICAL COMMUNITIES

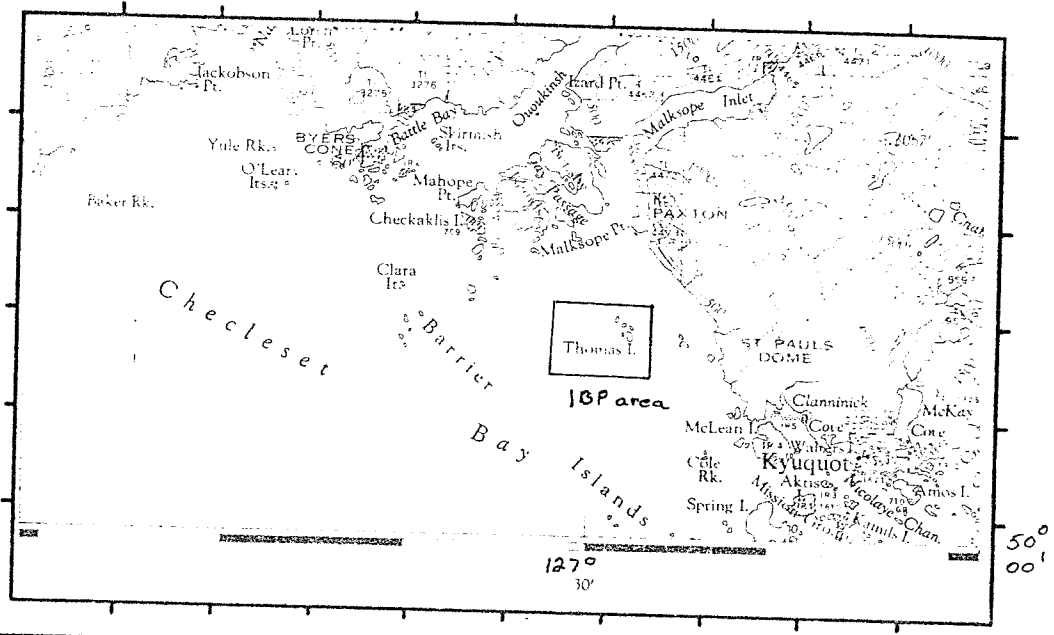
CHECK SHEET (Mark VII) FOR SURVEY OF IBP AREAS*
 To be completed with reference to the GUIDE TO THE CHECK SHEET

Serial Number				

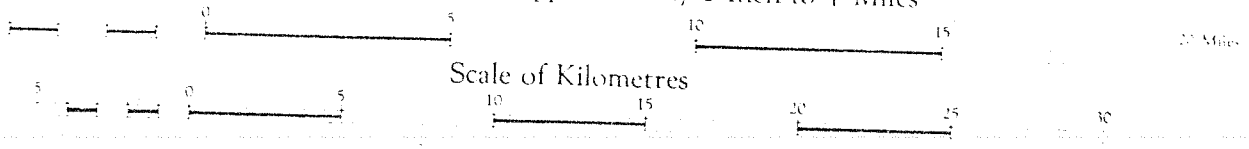
For Data
Centre Use
only

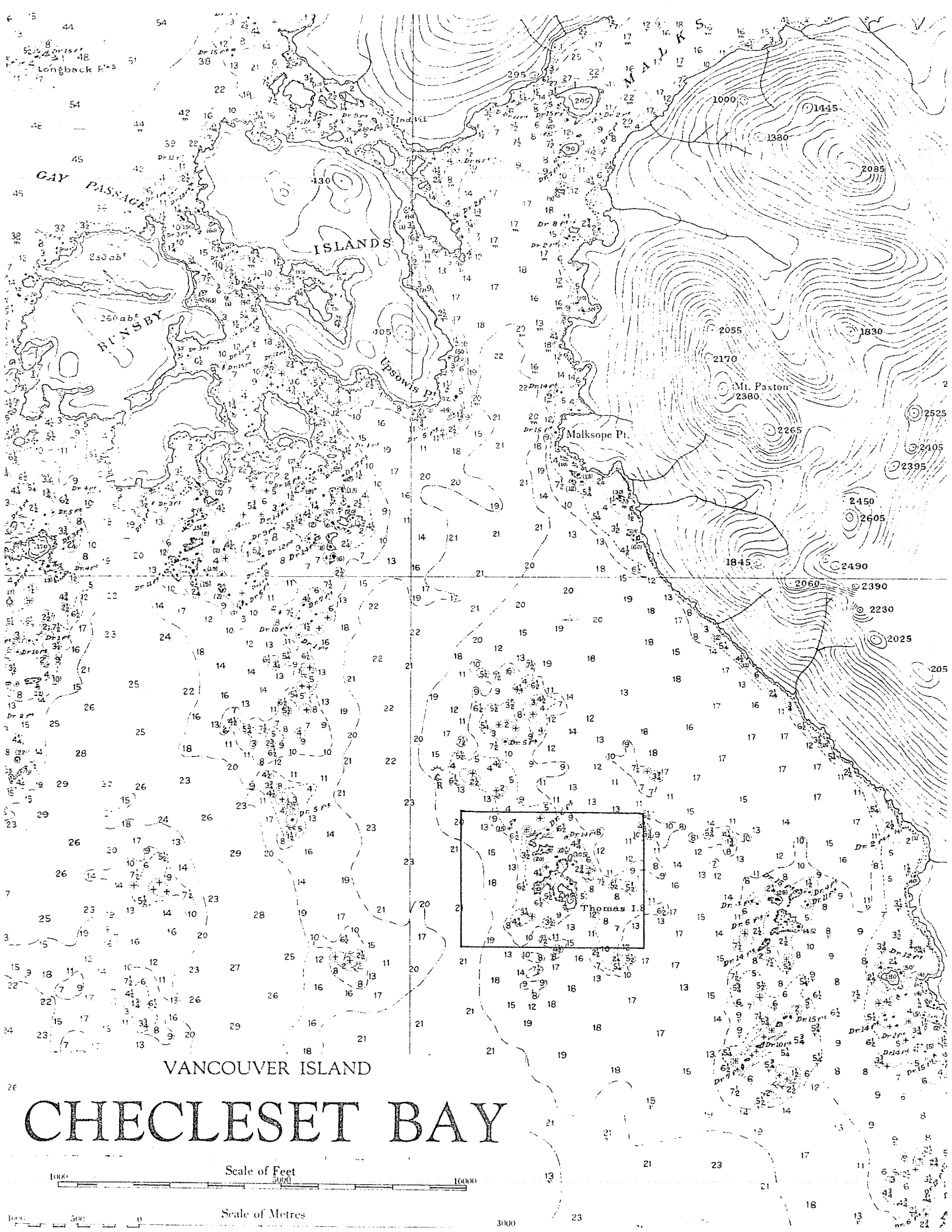
1. Name of surveyor R. Wayne Campbell/Charles J. Guiguet
2. Address of surveyor Vertebrate Zoology Division
 British Columbia Provincial Museum
 Victoria, British Columbia,
 Canada V8W 1A1
3. Check Sheet completed (a) on site (b) from records X
4. Date Check Sheet completed 21 November 1976

2. 1. Name of IBP Area Thomas Islands group
2. Name of IBP Subdivision (or serial letter)
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.



Scale 1:250,000 or approximately 1 Inch to 4 Miles





ISLANDS

GAY PASSAGE

BINSBY

Upsowis Dr.

Malksope Pt.

Mt. Paxton
2380

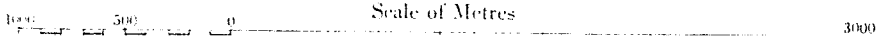
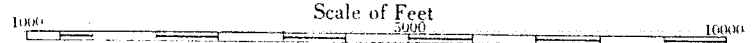
Thomas I.

VANCOUVER ISLAND

CHECLESSET BAY

Scale of Feet

Scale of Metres



3. Location of IBP Area*

1. Latitude ...53...° ...03... N/S Longitude ...127...° 27... E/W
2. CountryCanada.....
- State or Province ..British..Columbia..... County
- (State or Province County)

4. Administration

- National 1. Official category Crown Land
2. Address of administration see map Alert Bay (sheet 92L), 1969,
British Columbia Provincial Government
..... Surveys and Mapping Branch
..... Victoria

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)approx. 40 acres = 17 hectares.....
2. Altitude (state units of measurement) Maximum 60 feet = 20 meters
- Minimum0 feet = ocean level.....

6. Climate

Nearest climatological station :

1. Name Spring Island Lightstation
2. Climatological station on IBP Area*? Yes No ...X.....
3. If (2) not, distance from edge of IBP Area* (state units) ...4 miles = 6.5 km.....
4. Direction from IBP Area* southeast
5. Additional data sheet attached? Yes No ...X.....

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							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Please give information about further communities on a separate sheet.

7.
(cont.)

2

Soil

Community Reference Number	Soil type	Other notes
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) Exposed maritime rocky islands, largest with forested crown and grassy and herbaceous slopes; coastline rugged

2. Relief Type

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

3. Special landscape features (list)

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
60	20	10	10				

3. Physiography. % of coast

Cliffed	Sloping	Flat
60	30	10

4. Special Coastal Features (list) Varied physiography, barren rocky islets

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		X
Running	very limited	

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps				
Ponds		X	X	
Lakes				

3. Running Water intermittent; usually none

	Permanent	Intermittent
Springs, cold		
Springs, hot		
Streams		
Rivers		

4. Special freshwater features
none
.....

12. Salt and Brackish Water within IBP Area*

Salt Lakes	<input type="checkbox"/>	Lagoon	<input type="checkbox"/> none	<input checked="" 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												
Aves		1		2				3				
Reptilia												
Amphibia												
Pisces												
Insecta												

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

Noteworthy nesting-seabirds include Fork-tailed Storm-Petrel, Leach's Storm-Petrel, Black Oystercatcher, Glaucous-winged Gull, Pigeon Guillemot and Bald Eagle. Fuller details in Appendix 2.

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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											
shrubs											
herbs											
grass											
Gymnospermae											
Pteridophyta											
Bryophyta											
Lichens and Algae											

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

The marine birds of special interest include the two Storm-Petrels whose ecological requirements restrict them to a small number of sites in British Columbia. This area is also one of the few locations in the Province where Glaucous-winged Gulls do not pose a threat as main predators.

15. Exceptional Interest of IBP Area*

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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* negligible to date

2. Particular

	Past impact	Present impact	Trend			
			Increasing	Decreasing	No change	No information
Cultivation						
Drainage						
Other soil disturbance						
Grazing						
Selective flora disturbance						
Logging						X
Plantation						
Hunting						X
Removal of predators						
Pesticides						
Introductions --- plants						
Introductions --- animals						
Fire						X
Permanent habitation						
Recreation and tourism						X
Research						

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											
Fauna	X											
Non-living	X											

18. References

1. List major biological/geographical references for the IBP Area.

Sheet attached? Yes NoX.....

2. List main maps available for the IBP Area.

List attached? Yes ..X..... No

3. Aerial photographs for the IBP Area available?

For whole areaX..... For part of area None

19. Other Relevant Information

Maps available:

- a) Federal Marine Chart No. 3683 (Checleset Bay), 1974.
- b) British Columbia Government, Sheet 92L/3 (Kyuquot), 1957, Victoria; scale 1:50,000; Sheet 92L (Alert Bay), 1969, L;250,000.

Signed R. Wayne Campbell
(Surveyor)

R. Wayne Campbell

Appendix 1. Resume of ornithological features of Thomas Island
and associated islets.

a) Total species list

The following were noted during a brief visit on June 25 1975:

Fork-tailed Storm Petrel (nesting), Leach's Storm Petrel (nesting), Pelagic Cormorant (not nesting), Bald Eagle (nesting), Black Oystercatcher (nesting), Glaucous-winged Gull (nesting), Black-legged Kittiwake, Pigeon Guillemot (nesting), Rufous Hummingbird, Northwestern Crow (nesting), Winter Wren, Orange-crowned Warbler, Fox Sparrow and Song Sparrow (probably nesting).

b) Breeding species of special interest

Fork-tailed Storm Petrel - new record; small numbers nest on grassy slopes among Leach's Storm Petrels.

Leach's Storm Petrel - new record; at least 1500 pairs nest in burrows throughout grassy parts of Thomas Island.

Black Oystercatcher - new record; eleven nests were located in rocky outcroppings throughout the islets.

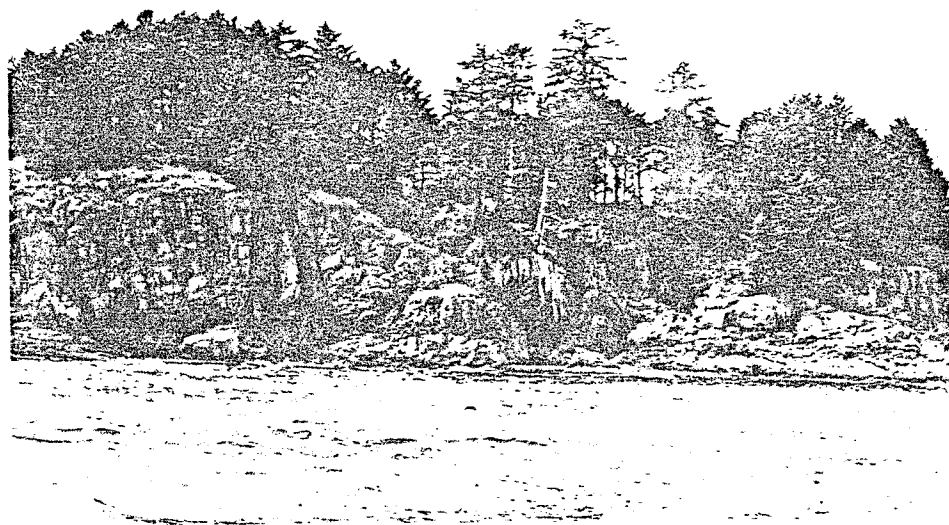
Glaucous-winged Gull - new record; only seven pairs nest in exposed situations

Pigeon Guillemot - new record; about 10 pairs nest in suitable habitat throughout the group of islets.

The aggregate of nesting sea-birds is small but that a substantial population of storm-petrels is breeding in an area where predatory gulls are almost absent is significant. The groups of islands remains at present undisturbed by man and therefore provides a rather unique natural ecological unit.



THOMAS ISLAND



THOMAS ISLAND



LEACH'S PETREL HABITAT -- THOMAS ISLAND



LEACH'S PETREL HABITAT -- THOMAS ISLAND

APPLICATION FOR ECOLOGICAL RESERVE

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

Forested land in Lot 3202, plus 70 acres to the East.

2. Geographical location (relate to nearest settlement, mountain, river, etc.)

West of the junction of Little Gaspard and Gaspard Creeks.

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

Cariboo Aspen, Lodgepole Pine, Douglas Fir Zone (CALPdf)

4. Approximate total acreage.

368 ha (910 acres)

5. Purpose of the reserve.

Long term forestry research.

(a) Primary (state acreage) 368 ha (910 acres)
Protection of representative vegetation communities in the Cariboo-Douglas Fir Zone.

(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.

Timber Volumes:

Pseudotsuga menziesii

F(P1) 831-P on 25% area.

Pinus contorta

Juniperus scopulorum

Signature Alan H. Vyse
I.B.P. Surveyor
S. Hardy, A Vyse