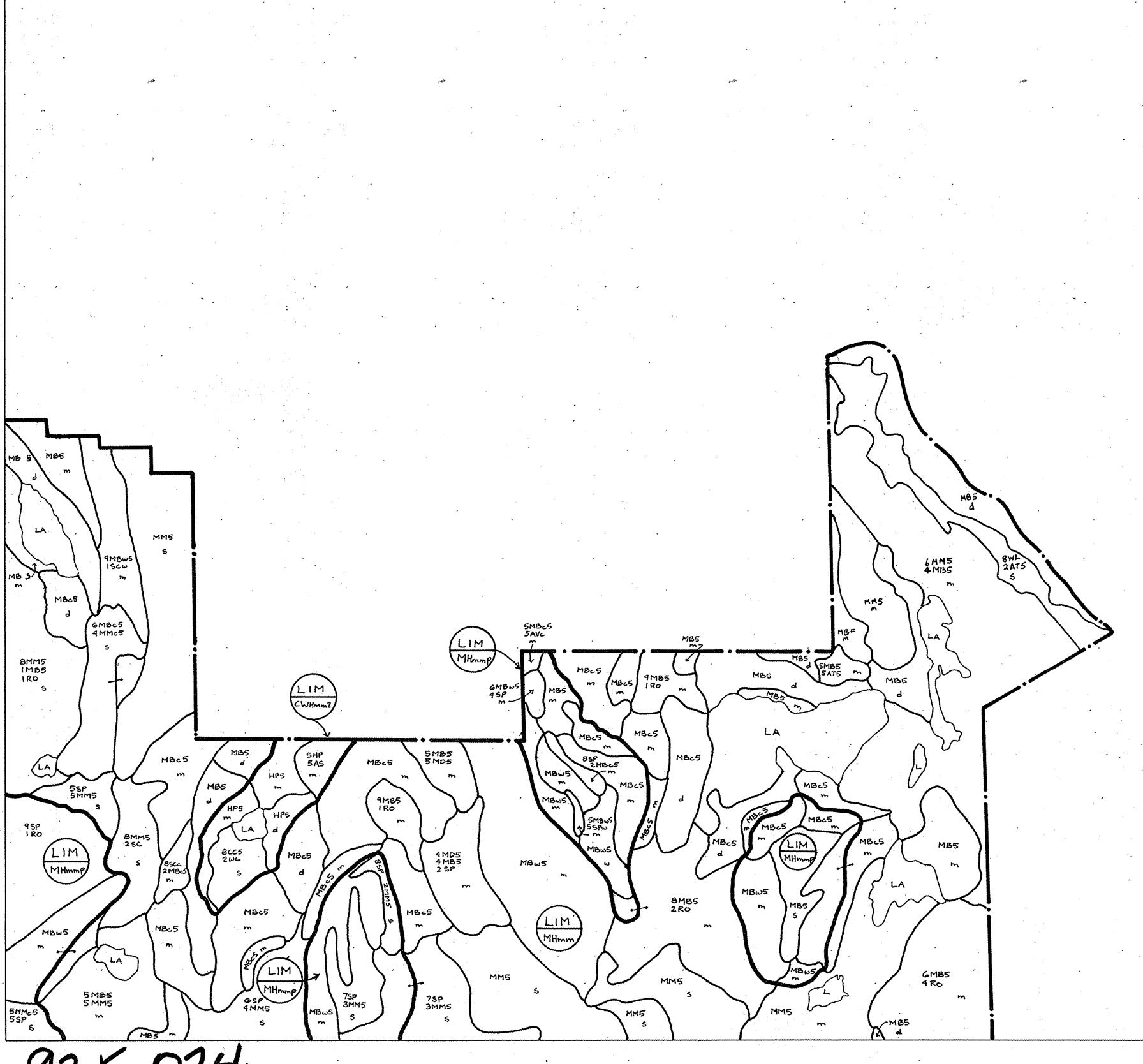
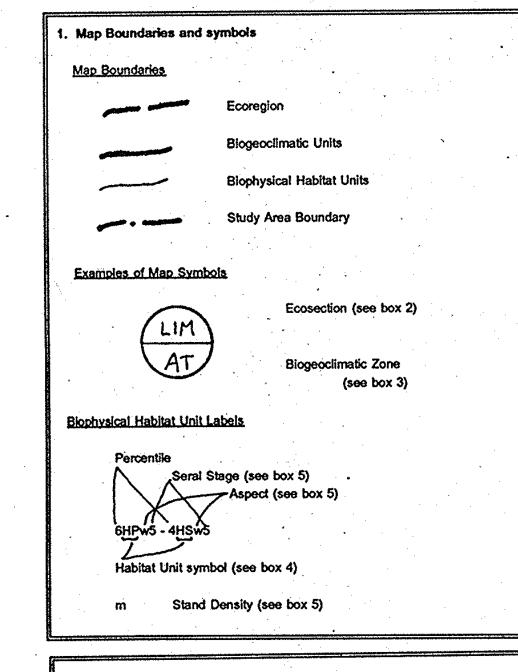
STRATHCONA PROVINCIAL PARK 1993, 92F .074



92F.074

STRATHCONA PROVINCIAL PARK BIOPHYSICAL HABITAT



2. Ecosection

Ecosections are large, subregional sized areas, influenced by a particular macroclimatic process or interacting processes over a large physiographic unit and are characterized by all plant communities and wildlife populations present (Demarchi et al. 1989).

Map Symbol	Ecosection	Ecoregion	Ecoprovince
LIM	Leeward Island	Eastern	Georgia
	Mountains	Vancouver Is	Depression
NIM	Northern Island	Westem	Coast and
	Mountains	Vancouver Is	Mountains
WIM	Windward Island	Western	Coast and
	Mountains	Vancouver Is	Mountains

DESCRIPTIONS

mountainous area of reduced rainfall leeward from Vancouver Island Ranges to the Nanaimo Lowlands.

NIM Northern Island Mountains Ecosection. This ecosection is an area of low to rolling topography with high precipitation located at the north end of Vancouver Island.

WIM Windward Island Mountains Ecosection. This ecosection is the area of lowlands, islands and mountains on the western margin of Vancouver Island.

3. Biogeoclimatic Units

A biogeoclimatic unit is an area characterized by a distinct climatic climax or zonal ecosystem association. A subzone consists of unique sequences of geographically related ecosystems influenced by one type of regional climate (Utzig, et al. 1983).

CWHxm2 COASTAL WESTERN HEMLOCK - western very dry maritime subzone occurs at lower elevations along the east side of Vancouver Island. Characterized by warm, dry summers and moist, mild winters with relatively little

CWHmm1 & 2 COASTAL WESTERN HEMLOCK - moist maritime subzone mm1: Submontane The submontane variant occurs on the leeward side of the Vancouver Island Ranges above the CWHxm subzone and below 650m. Climatic conditions are intermediate between

snowfall. Growing seasons are long and feature water

CWHxm and CWHvm subzones with moist, mild winters and cool but relatively dry summers.

The montane variant occurs at higher elevations on the leeward side of the Vancouver Island Ranges between 650 and 1000m. Compared to CWHmm1 this subzone has

CWHvm1 & 2 COASTAL WESTERN HEMLOCK - very wet maritime

subzone
vm1 - Submontane The submontane variant occurs below 600m on the
windward slopes of Strathcona Park. This subzone has a
wet, humid climate with cool summers and mild winters
featuring relatively little snow. Growing seasons are long.
Precipitation is high but can vary considerably.

cooler temperatures, shorter growing seasons and heavier snowfall, with snowpacks persisting throughout the winter.

vm2 - Montane

The montane variant occurs at higher elevations (600 - 1000m), above the CWHvm1. It grades into the MH zone above. Characterized by a wet, humid climate with cool, short summers and cool winters featuring substantial snowfall.

MOUNTAIN HEMLOCK - moist manitime subzone occurs at high elevations (1000 - 1300m). It has long, moist, cold winters and short, cool moist summers. Frozen soils are rare due to insulating snowpack, but growing season frosts are common. Total snowfall is great, resulting in substantial snowpacks that can persist into July.

mmp MOUNTAIN HEMLOCK PARKLAND - moist maritime parkland subzone occurs above the MPmm (1300m). The climate is harsher than in the MHmm. If trees occur at all they are in isolated clumps and irregular small patches.

ALPINE TUNDRA zone occurs on high mountains throughout B.C. In Strathcona Park it occurs above 1650m. The harsh alpine climate is cold, windy, and snowy, and is characterized by low growing season temperatures and a very short frost-free period.

Map	BIOPHYSICAL HABITAT UNITS
Symbol	Habitat Units of the CWHxm2
D.C.	Douglas-fir - Cladina, shallow soils
DC DC	Douglas-fir - salal, dry
DS	Western hemiock - Kindbergla, mesic
HK	Western redcedar - foamflower, deep soils
CT	Sitka spruce - salmonberry, high floodplain
SS BR	Black cottonwood - red-osier dogwood, medium floodplain
Br C	Black Collocation a ten out of the out the out of the o
	Habitat Units of the CWHmm1 and 2
DS	Douglas fir - salai, shallow soils
HS	Western hemiock - salal, dry
HP	Hemlock - pipecleaner moss, mesic
AS	Amabilis fir - salmonberry, moist
cc	Western redcedar - skunk cabbage
SS	Sitka spruce - salmonberry, high floodplain
BR	Black cottonwood - red-osier dogwood, medium floodplain
-	Habitat Units of the CWHvm1 and 2
HC	Western hemiock - cladina, shallow solls
HS	Western hemlock - salal, dry
HB	Western hemiock - blueberry, mesic
AF	Amabilis fir - foamflower, rich mesic
AS	Amabilis fir - salmonberry, moist
CG	Western redcedar - goldthread, depression (vm2 only)
CC	Western redcedar - skunk cabbage
SS .	Sitka spruce - salmonberry, high floodplain
BR	Black Cottonwood - red-osler dogwood, medium floodplain
ES	Sedge/grass estuary (vm1 only)
	Habitat Units of the MHmm
	Mountain hemlock - mountain-heather, parkland
MM .	Mountain hemiock - hiveberry, mesic
MB	Amabilis fir - twistedstalk, deep soils
AT	Mountain hemiock - deer cabbage, wet depression
MD YH	Yellow cedar - hellebore
• -	Mountain-heathers - partridgefoot heath, mesic
MP SH	Sedge - hellebore meadow, fluvial
On	Codgo - Honoboro Mocadon, norm
	Habitat Units of the MHmmp
ММ	Mountain hemiock - mountain-heather parkland
MB	Mountain hemiock - blueberry forest
LM	Lichen - mountain-heathers, rocky soil
MP.	Mountain-heathers - partridgefoot heath, mesic
RM	Recent morraine
SH	Sedge - hellebore meadow, fluvial
	Habitat Units of the AT
LM	Lichen - mountain-heathers, rocky soils, generally warm aspect
	Additional Habitats
	(occur in several subzones/variants) Avalanche - bare RL rock outcrop, limestone
AB	
AV	Sitka alder avalanche chute SA slump-red alder
CL	cliff SC slide-composite vegetation
GL	glacier SB slide - bare
LA	take SP snowpack - permanent
RG	riparian gravel bar, TB talus - bare
	low elevation TV talus - vegetated, Sitka alder rock outcrop WL wetland
ll RO	rock outcrop WL wetland

5. Successional Stage/Aspect/Stand Density
FOREST SUCCESSIONAL STAGES

No. Stage
1 Shrub-Herb
2 Pole-Sapling
3 Young Forest
4 Mature Forest
5 Old Growth

ASPECT

w warm aspect slopes facing approximately 135° - 280°
c cool aspect slopes facing approximately 280° - 135°

STAND DENSITY
d dense canopy: greater than 65% cover
m moderate canopy: 25 - 65% cover

sparse: less than 25% cover

6. Survey and Credits

Air photo coverage for this project: BC78052: 116-125, 168-180; BC78076: 107, 237; BC80072: 4-50, 106-187, 226-260, 264-291, 296-297; BC80073: 10 36, 43-66, 71-86, 101-103, 261-262, 288-291; BC80093: 123-162; BC80095: 18-53, 59-86, 226-250, 257-277; BC80096: 143-159, 166-177; BC81010: 164, 165; BC81072: 168-172; BC84026: 107-115, 167-173; BC84028: 22-28, 209, 210, 213-218; BC84031: 28-37

Fieldwork: Minimal field checking was undertaken from July 19 to August 8, 1993. Less than 0.5% of the polygons were fieldchecked.

Mapped by: Madrone Consultants Ltd. 1994

Explanatory notes

In 1993 BC Parks (South Coast) initiated the Strathcona Provincial Park project to provide habitat mapping for effective vegetation and wildlife management.

The project area is over 230,000 hectares in size and is located in the central portion of Vancouver Island straddling the Vancouver Island Mountains. Three ecosections, eight biogeoclimatic zones and 65 biophysical habitat units fall within the study area. Mapping is at a scale of 1:20,000 for BCGS map sheets 92E.100, 92F.041, 042, 043, 044, 051, 052, 053, 054, 061, 062, 063, 064, 065, 071, 072, 073, 074, 081, 082, 091, 092, 92K.001, and 92L.010.

