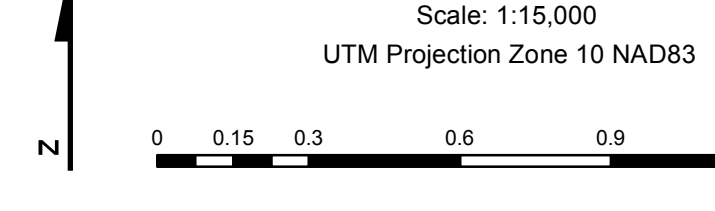
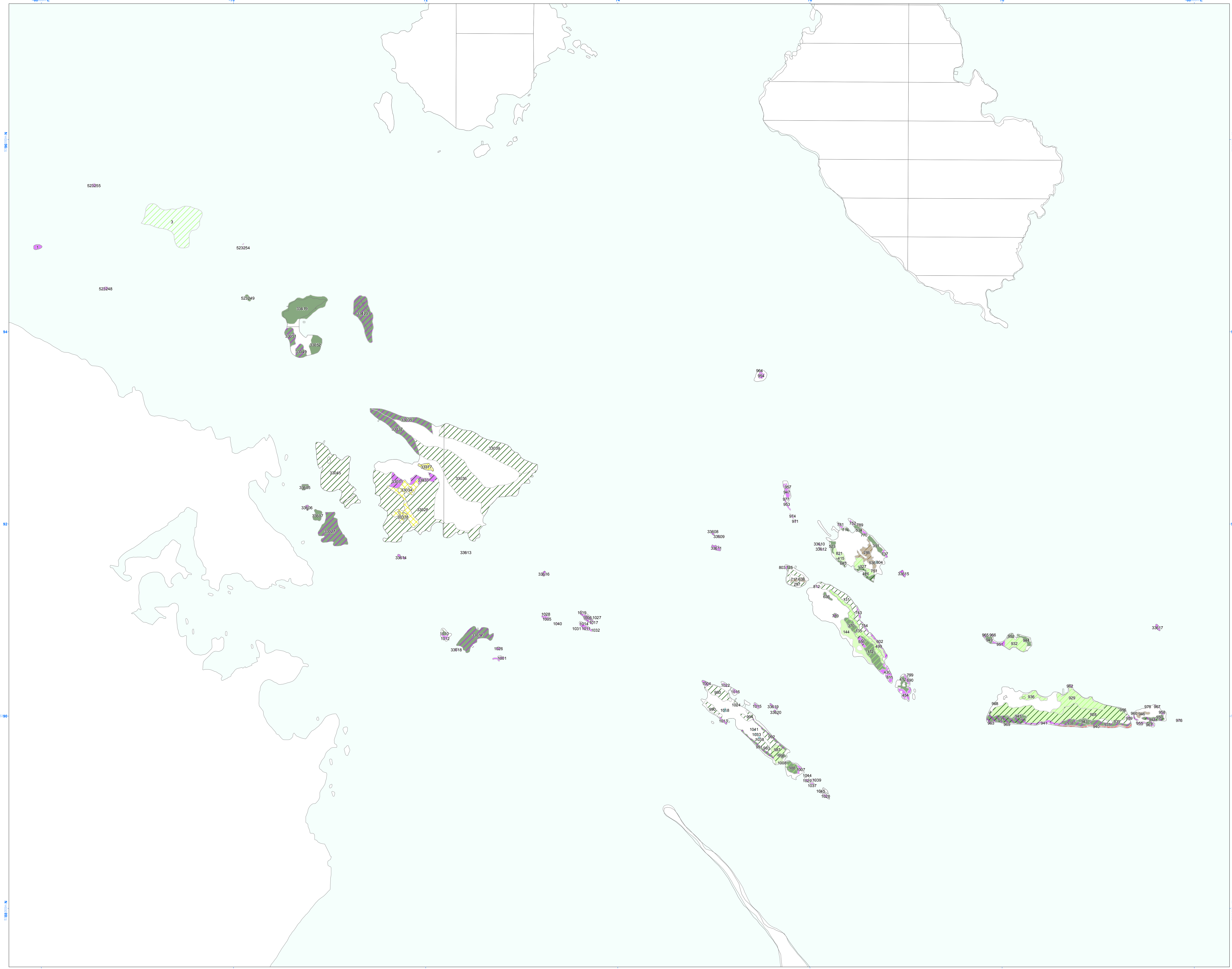


North Pender Associate Central Islands Sensitive Ecosystem Mapping Airphoto - 2004



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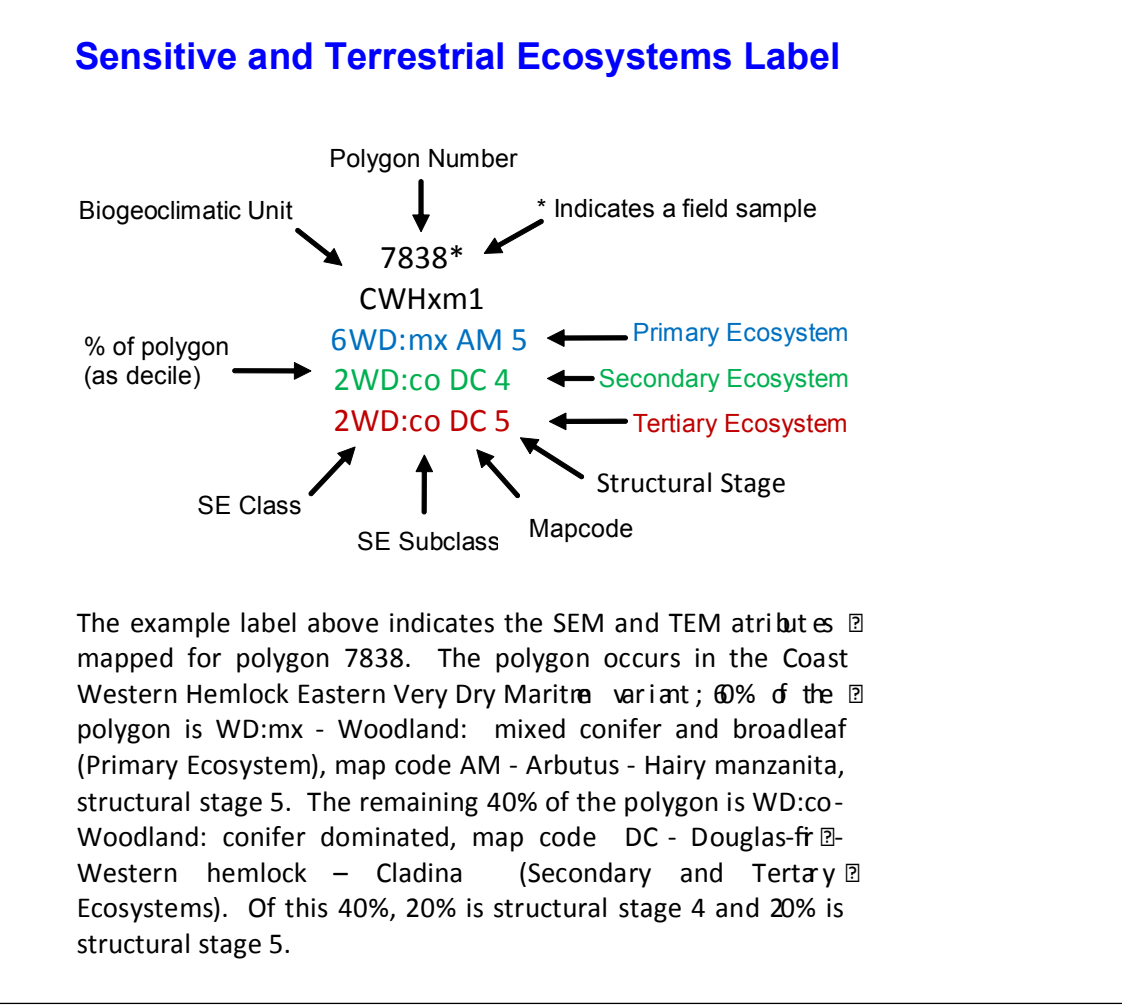


Map Code	Site Unit Name	Map Code	Site Unit Name	Map Code	Site Unit Name	Map Code	Site Unit Name
CDFnm	Forested	CDFnm	Non-Forested	AS	Aspen - Slough sedge	E01	Tufted hairgrass - Meadow barley estuarine meadow
W	Western redcedar - Slough sedge	E02	Glasswort - Sea-milkwort estuarine marsh	W51	Sitka sedge - Peat moss fen	W52	Sweet sedge - White oak-fern
W1	Western redcedar - Willow	E03	Sea-pink	W53	Slender sedge - White oak-fern	RZ	Road surface
W2	Douglas-fir - Snow-free Arbutus	E04	Lyngholm sedge estuarine marsh	W54	Curlew marsh	UR	Urban
W3	Douglas-fir - Grand Fir - Oregon Grape	FC	Falcom - Canas	W55	Sitka sedge - Hornwort-pansy marsh	Map Code	Site Unit Name
W4	Douglas-fir - Oregonas	HL	Herb-rich - Labrador tea	W56	Pink spores - Sitka sedge sward	SP	Sparsely vegetated
W5	Douglas-fir - Satal	LM	Dunegrass - Beach pea	W57	Sitka sedge - Pacific willow - Shrub cabbage sward	BE	Beach
GO	Garry oak - Ocean spray	OM	Garry oak - moss	Map Code	Site Unit Name	CL	Cliff
LS	Shore pine - Sparganium	OR	Ocean spray - rose	LA	Lake	MU	Mudflat
RC	Western redcedar - Shrub cabbage	OB	Garry oak - Brome (or mixed grasses)	OD	Cultivated orchard	NU	Natural
RF	Western redcedar - Grand Fir - Foxtail	RA	Noctua rose - Pacific crab apple	OP	Open water (< 2m deep)	RI	River
RK	Western redcedar - Douglas-fir - Oregon beaked moss	SC	Cladonia - Wallonia's selaginella	PD	Pond (> 2m deep)	RO	Rock outcrop
RP	Western redcedar - Indian-plum	SL	Sedge - Western lileopsis	OC	Gravel course		
RS	Western redcedar - Snowberry	SS	Spina - Sedge wetland	GP	Gravel pit		
RV	Western redcedar - Vanilla leaf	W50	Labrador tea - Bog laurel - Peat-moss bog	IN	Industrial		

What is a Sensitive Ecosystem?

For the purpose of this study, an ecosystem is considered to be a portion of the landscape with relatively uniform dominant vegetation.

Sensitive ecosystems are those which are fragile and/or rare, or those ecosystems which are ecologically important because of the diversity of species they support.



Structural Stage & Biogeoclimatic Units

Structural Stage	Description
0	No Structural Stage (usually rock or open water)
1	Sparse/Bryoid
2	Herb
3	Shrub/Herb
4	Pole/Sapling
5	Young Forest
6	Mature Forest
7	Old Forest

Biogeoclimatic Units

Units	Description
CDFnm	Coastal Douglas-fir M1 & 2 Maritime S1b zone

Terrestrial Ecosystem Map Codes and Site Unit Names

Map Code | **Site Unit Name** | **Map Code** | **Site Unit Name** | **Map Code** | **Site Unit Name** | **Map Code** | **Site Unit Name**

AS | **Aspen - Slough sedge** | **E01** | **Tufted hairgrass - Meadow barley estuarine meadow** | **W51** | **Sitka sedge - Peat moss fen** | **RE** | **Reservoir**

W | **Western redcedar - Slough sedge** | **E02** | **Glasswort - Sea-milkwort estuarine marsh** | **W52** | **Sweet sedge - White oak-fern** | **RZ** | **Road surface**

W1 | **Western redcedar - Willow** | **E03** | **Sea-pink** | **W53** | **Slender sedge - White oak-fern** | **UR** | **Urban**

W2 | **Douglas-fir - Snow-free Arbutus** | **E04** | **Lyngholm sedge estuarine marsh** | **W54** | **Curlew marsh** | **Map Code** | **Site Unit Name**

W3 | **Douglas-fir - Grand Fir - Oregon Grape** | **FC** | **Falcom - Canas** | **W55** | **Sitka sedge - Hornwort-pansy marsh** | **SP** | **Sparsely vegetated**

W4 | **Douglas-fir - Oregonas** | **HL** | **Herb-rich - Labrador tea** | **W56** | **Pink spores - Sitka sedge sward** | **BE** | **Beach**

W5 | **Douglas-fir - Satal** | **LM** | **Dunegrass - Beach pea** | **W57** | **Sitka sedge - Pacific willow - Shrub cabbage sward** | **CL** | **Cliff**

GO | **Garry oak - Ocean spray** | **OM** | **Garry oak - moss** | **LA** | **Lake**

LS | **Shore pine - Sparganium** | **OR** | **Ocean spray - rose** | **OD** | **Cultivated orchard**

RC | **Western redcedar - Shrub cabbage** | **OB** | **Garry oak - Brome (or mixed grasses)** | **OP** | **Open water (< 2m deep)**

RF | **Western redcedar - Grand Fir - Foxtail** | **RA** | **Noctua rose - Pacific crab apple** | **PD** | **Pond (> 2m deep)**

RK | **Western redcedar - Douglas-fir - Oregon beaked moss** | **SC** | **Cladonia - Wallonia's selaginella** | **OC** | **Gravel course**

RP | **Western redcedar - Indian-plum** | **SL** | **Sedge - Western lileopsis** | **GP** | **Gravel pit**

RS | **Western redcedar - Snowberry** | **SS** | **Spina - Sedge wetland** | **IN** | **Industrial**

RV | **Western redcedar - Vanilla leaf** | **W50** | **Labrador tea - Bog laurel - Peat-moss bog** | |

What can be done to protect the sensitive ecosystems?

Direct and indirect impacts to these ecosystems can be avoided by:

- Retaining or creating vegetated buffers around sensitive ecosystems to isolate them from outside disturbances.
- Controlling land and water access to fragile ecosystems.
- Controlling invasive species.
- Allowing natural disturbances to occur.
- Maintaining water quality.

Other Mapped Ecosystems

Young Forest (YF)

Definition: Limited areas of young forest dispersed amongst sensitive and important ecosystems. Forest is 40 - 80 yrs old depending on species and ecological conditions. canopy has begun to differentiate.

Seasonally Flooded Agricultural Fields (SF)

Definition: Limited to areas of annually flooded cultivated fields or hay fields dispersed amongst sensitive and important ecosystems.

Non-Sensitive (NA)

Definition: Limited to areas of disturbance or human impact dispersed amongst sensitive and important ecosystems.

Rare Ecosystems

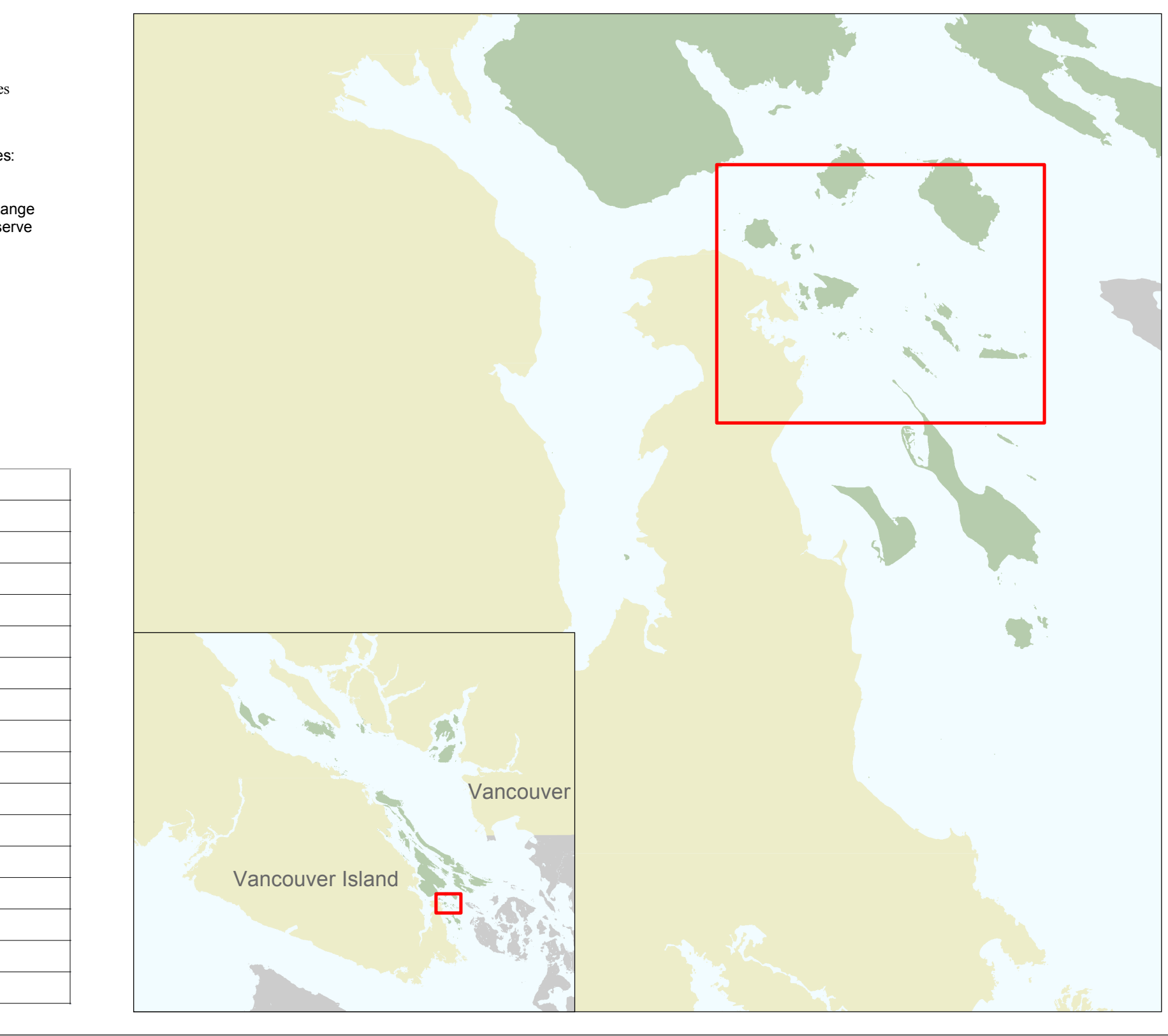
Mature Forest (MF)

Definition: Usually conifer-dominated, occasionally deciduous, dry to moist forest types, structural stage 6, generally >80yrs.

Importance: Future older forests. Within 20 years, many Mature Forests that were logged early this century will become Older Forests. The biodiversity values of Mature Forests generally become higher with age. This means it will be able to sustain more and larger species of plants and animals.

Landscap connectivity: Mature Forest stands provide connections between other natural areas that promote the movement and dispersal of many forest-dwelling species across the landscape.

Buffer: Mature Forest can minimize disturbance to sensitive ecosystems that occur within or adjacent to the forest patch. Where they border or surround wetlands, patches of older forest or other sensitive ecosystems, the Mature Forest area serves an important role in buffering the adjacent sensitive areas.



Other Mapped Ecosystems

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Ecosystem Map Symbols

Ecosystem composition is complex and often contains a dominant ecosystem with secondary and tertiary ecosystems. In this map the dominant ecosystem has a solid shading and the secondary and tertiary ecosystems are identified by cross-hatched lines.

Example of a primary sensitive Woodland ecosystem with a secondary sensitive Herbaceous ecosystem

Example of a secondary sensitive Herbaceous and tertiary sensitive Woodland ecosystems mixed with a non-sensitive primary ecosystem

Example of a tertiary sensitive Herbaceous ecosystem mixed with a primary important Mature Forest ecosystem