

Sensitive and Terrestrial Ecosystems Labels



Sensitive Ecosystems Inventory of the Sunshine Coast and Adjacent Islands

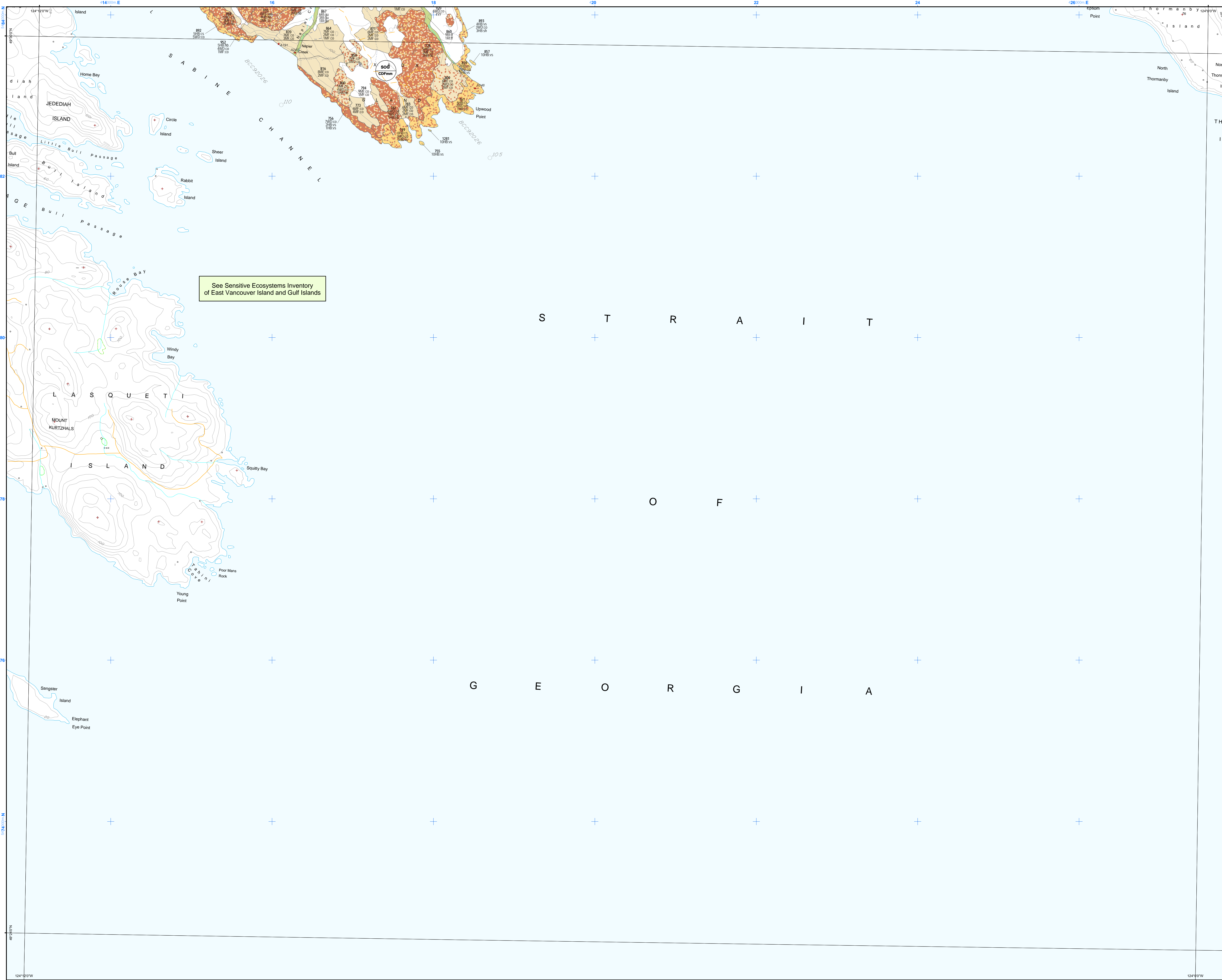


Table with 2 columns: Structural Stage and Subclass. It lists various ecosystem types and their corresponding subclasses, such as '1. Shrubland' and '2. Herb'.

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.

Methodology The mapping methods are based on the Vancouver Island SEI project and the Resources Information Standards Committee (RISC) Standard for Terrestrial Ecosystems (TEM) in BC.

Plan and implement all development activities in a manner that will not adversely affect or disturb the sensitive ecosystem.

Aerial photographs were used from between 1994 and 1999, most are at 1:10,000 scale, some at 1:16,000 scale.

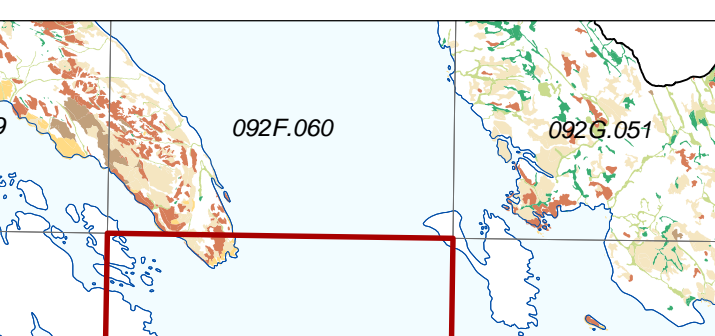


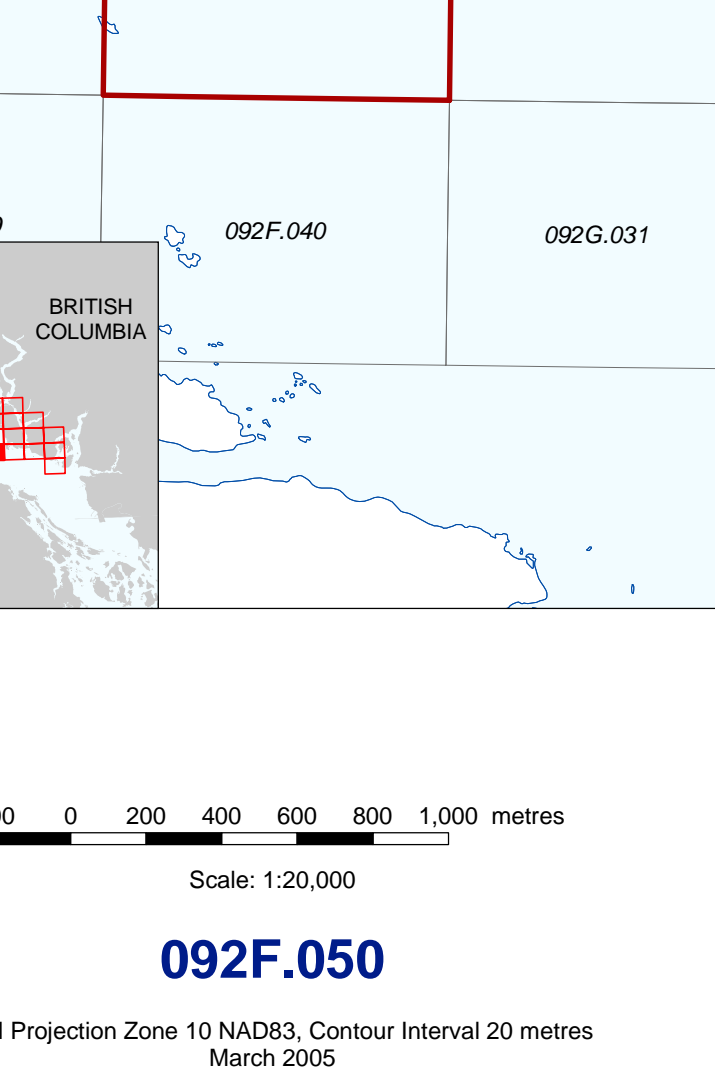
Table with 2 columns: Terrestrial Ecosystem Map Codes and Site Unit Names. It lists various ecosystem codes and their corresponding site unit names, such as '1. Shrubland' and '2. Herb'.

Rationale Ecologically significant lands and important wildlife habitats are fast disappearing throughout the lowlands surrounding the Strait of Georgia.

What can be done to protect 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 disturbance.

A decision-maker (such as a politician or resource manager) ensure that protection of remaining sensitive ecosystems is a priority at all levels, and support programs, plans and operational activity that will help protect sensitive ecosystems.

A volunteer participate in educational programs, conservation, fundraising, or in programs to remove invasive species.



Sensitive Ecosystems

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

Old Forest (OF): Conifer-dominated dry to moist forest types, structural stage 7 (see table), generally <250yrs. Subclasses: of (conifer dominated) - greater than 75% coniferous species.

Woodland (WD): Dry open forests, generally between 10 and 30% tree cover, can be conifer dominated or mixed conifer and shrub stands, because of open canopy, will include non-forested openings, often with shallow soils and bedrock outcroppings. Subclasses: wo (mixed conifer and deciduous) - a minimum of 25% cover of either group is included in the total tree cover.

Herbaceous (HB): Non-forested ecosystems less than 10% tree cover, generally with shallow soils and often with bedrock outcroppings. Includes large openings with scattered shrubs, coastal heathlands, sometimes vegetated with grasses and herbs, sometimes low shrubs, and moss and lichen communities on rock outcrops. Subclasses: hb (herbaceous) - central concept of the category, non-forested, less than 10% tree cover, generally shallow soils, often with exposed bedrock, predominantly a mix of grasses and forbs, also lichens and mosses.

Riparian (RI): Areas adjacent to water bodies (rivers, lakes, ocean, wetlands) which are influenced by factors such as erosion, sedimentation, flooding and/or subterranean intrusion due to proximity to the water body. Structural stages 1-7. Subclasses: rl (low bench floodplain) - flooded at least every other year for moderate periods of growing season, plant species adapted to extended flooding and abrasion, low or all shrubs most common.

Wetland (WN): Areas that are saturated or inundated with water for long enough periods of time to develop vegetation and biological activity adapted to wet environments. This may result from flooding, fluctuating water tables, total influence or poor drainage conditions. Subclasses: wg (open) - nutrient poor wetland on organic soils (sphagnum peat), water source predominantly from precipitation, may be tree or shrub dominated.

Cliffs (CL): Very steep slope, often exposed bedrock, may include steep sided sand hills, habitat for rare species. Subclasses: ec (erosion cliffs), ic (island cliffs).

Other Important Ecosystems Other important ecosystems have high biodiversity values. Mature Forests (MF): Usually conifer-dominated, occasionally deciduous, dry to moist forest types, structural stage 6, generally >50yrs, >25% of buffering sensitive ecosystems. Subclasses: mo (mixed conifer and deciduous) - a minimum of 25% cover of either group is included in the total tree cover.

Seasonally Flooded Agricultural Fields (FS): Annually flooded cultivated fields or hay fields; important migrating and wintering waterfowl habitat. Other Mapped Ecosystems Other mapped ecosystems occur in mosaic with sensitive ecosystems and are not possible to delineate separately at the mapping scale.

Young Forests (YF): Limited to areas of young forest dispersed among sensitive and other important ecosystems. Polygon Label indicates a field sample was completed but was not mapped.

Some polygon labels will have class and subclass repeated up to three times. This is not an error; it reflects the variability in site units and structural stages occurring within a polygon. More than one site unit can be correlated to a SE class and subclass. Polygon labels on the map do not include the site units. The Sensitive and Terrestrial Ecosystem Labels on the left side of the map provide details about site units mapped in each polygon.

Ecosystem Components This cartographic product uses Dot Density to indicate where more than one ecosystem class is mapped in a polygon. The number of dots indicates the proportion of the polygon represented by the 2nd and 3rd ecosystem; the colour of the dots indicates the 2nd and 3rd ecosystem class.

The base colour represents the first ecosystem component. Coloured dots overlaid upon the base colour indicate a second ecosystem component. Two colours of dots indicate a second and third ecosystem.

Biogeoclimatic Units CWHm Coastal Douglas-fir Moist Maritime Subzone, CWHm1 Coastal Western Hemlock Eastern Very Dry Maritime Variant, CWHm2 Coastal Western Hemlock Dry Maritime Subzone, CWHm3 Coastal Western Hemlock Submontane Very Wet Maritime Variant.

Ecosystems GEL Georgia Lowlands Ecosystem, SOG Strait of Georgia Ecosystem, QJF Outer Fjordland Ecosystem, SPR Southern Pacific Ranges Ecosystem.

Map Symbols Polygon Boundary, Biogeoclimatic Boundary, Ecosystem Boundary, Outer Fjordland Boundary, 20m contours, TRIM streams, Additional streams, Intermittent/Perennial Stream, Drainage Route.