92G.041 433 000 Sensitive Ecosystems Inventory 442 000 /RÉDRÓOFS **Bowen/Gambier Trust Areas** Sensitive Ecosystems Vegetated rocky islet, rocky shoreline/grassland, rocky shoreline/moss; coastal cliff (cl) H1930A BCB 90014 **Terrestrial herbaceous** Natural grasslands or bryophyte-dominated vegetation, including Inset 1 rock outcrop/grassland and rock outcrop/moss types (ro); >20% shrub cover (sh). Forest ecosystem with dominant age class > 100 years; WELCOME. coniferous (co), mixed with broadleaf component > 15% (mx). BEACH All stages of floodplain vegetation including riparian vegetation associated with gullies (g). Structural stages: 1, 1a, 1b, nonvegetated/sparse; 2 herb; 3 shrub/herb; 3a low shrub; 3b tall shrub; 4 pole/sapling; 5 young forest; 6 mature forest; 7 old forest. Sparsely vegetated BCB 90014 SargeantEcosystem with sparse vegetation; cliff (cl), sand dune (sd), spit Reception B a yEcosystem with wet soil and moisture-dependent plants: bog (bg), fen (fn), marsh (ms), swamp (sp), shallow water (sw), wet Rocks Open woodlands (stands of Garry oak and mixed stands of Garry oak/Arbutus, Garry oak/Douglas-fir, Arbutus/Douglas-fir). Inset 2 S T R A I TAreas with general biodiversity values Seasonally flooded agricultural field Forested ecosystem with dominant age class 60 - 100 years; coniferous (co), mixed with broadleaf component > 15% (mx). Secondary ecosystem Inset 1 Indicates the presence of a secondary ecosystem; see table below for further details. Air photo identification number Location of photo center BCB 90045 Municipal boundary BCB 90014 BCB 90014 Turnagain Ecosystem Classifications for Sites in the Bowen/Gambier Trust Areas SECRET Island See legend above for the description of the ecosystem codes COVE Inset 2 H1913A S = T = R - A - I - TBCB 90014 \_\_129 92F060 92G051 92G041 92G042 ,VAÜCROFT BEACH Thormanby lsland H1925 92F050 92G041 of air photos used for each map sheet are listed below; the air BRITISH COLUMBIA Woodlands support several rare plant and invertebrate species. Sensitive Ecosystems Inventory Project Coastal bluffs - The ephemeral pools which occur in these areas photo flight line numbers and photo centres are located on each Environment Environnement 092F.060 The SEI systematically identified, classified, mapped and provide critical habitat for several rare plant species. Coastal Canada Sensitive Ecosystems cliffs also provide valuable seabird nesting sites. Terrestrial evaluated these sensitive ecosystems throughout the coastal Ministry of Environment, Due to the rapid changes occurring in this region, it is important to refer to the dates of the information sources. For those sites lowland, from north of Campbell River south to Sooke, and herbaceous ecosystems - These areas are mosaics of rare coastal Lands and Parks For this project: ecosystem is defined as a portion of including the adjacent Gulf Islands. The study area is located in grassland and moss-covered rock outcrops. More typically occurring as openings in forested areas, these sites provide landscape with a relatively uniform dominant vegetation; the Capital, Cowichan Valley, Nanaimo and Comox-Strathcona which were not visited, the accuracy of the data depends heavily excellent habitat for butterflies, Black-tailed deer and the rare regional districts and the Islands Trust area. upon professional judgement and available source material. sensitive ecosystems are those which are fragile and/or rare. Sharp-tailed Snake. Sparsely vegetated ecosystems - These Approximately 7000 sites were identified in an area of roughly include rare sand dunes, spits and inland cliffs. Participating Agencies Sensitive Ecosystems Inventory In this dry region, wet habitats take on added significance, was one-half hectare. The minimum mapping size for forested areas Environment Canada (Canadian Wildlife Service), the Habitat 092F.050 Vancouver Island's eastern coastal lowland and adjacent Gulf supporting a rich diversity of plants and animals; they also play a varied based on age class and structural stage. Conservation Trust Fund and B.C. Ministry of Environment, 092G.041 092G.042 Islands comprise an ecological region unique in Canada. The Lands and Parks (Vancouver Island Regional Office, Nanaimo role in maintaining hydrological regimes, filtering out pollutants, Bowen/Gambier Trust Areas Inset 2 Mediterranean-type climate and long growing season support The initial phase of the SEI project (1993/94) involved the and Conservation Data Centre, Victoria) combined resources to controlling peak flows and maintaining water quality and many rare species of plants and animals as well as a variety of temperatures. Since many of them are known to have been interpretation of approximately 3000 air photos (mostly at scales conduct this project. Additional funds were contributed by B.C. 's Corporate Resources Inventory Initiative, B.C. Ministry of Data Sources for Bowen/Gambier Trust Areas productive ecosystems. It is also one of two areas in British of 1:10 000 to 1:15 000) and the compilation of existing destroyed or altered, the remaining sites require urgent conservation or management to avoid losing the rich biodiversity of this region. *Riparian ecosystems* - These floodplains, lake shores and gullies provide an abundance of food, shelter and Forests, Capital and Comox-Strathcona Regional Districts, Columbia where the greatest loss of natural systems has occurred knowledge. The second phase (1994/95) consisted of field and continues to occur. Intense development pressures throughout checking approximately 30% of all sites identified in Phase 1, to Provincial Capital Commission, Islands Trust and the Field visits municipalities of Nanaimo and Campbell River. Fisheries and this region have resulted in the fragmentation and loss of most of verify boundaries, classify, photograph and evaluate present Oceans Canada provided additional stream data to supplement the these natural areas. breeding sites for bird, mammal, amphibian and invertebrate conditions. The final phase (1995/97) involved compiling and Initial groundtruthing was conducted during the summer of 1994. species. Wetlands - These are essential resting, feeding and editing all data, digitizing sites outlined on the air photos using Additional field checking was performed in 1999, and an updated The Sensitive Ecosystems Inventory (SEI) project identifies the the Mono Restitution method and producing digital and hardcopy 092F.040 breeding sites for ducks, songbirds, fish, amphibians and rare 092G.031 092G.032 remnants of these rare and fragile terrestrial ecosystems to invertebrates. Wetlands also support a variety of rare plants. maps. A technical report has been produced which provides a map set and database were produced. encourage land-use decisions which will ensure their continued summary and analysis of the data. Two additional ecosystems were mapped for general biodiversity values. Seasonally flooded agricultural fields - These fields provide valuable habitat for overwintering waterfowl. Older ecological integrity. Digitizing: Integrated Mapping Technologies, Vancouver. Cartography: Clover Point Cartographics Ltd., Victoria. 92G.041 A simplified version of this SEI data has been combined with Aerial photographs aquatic ecosystem information, cadastral data and orthophoto Base Mapping Data: Selected digital layers are from the Terrain Resources Information Management (TRIM) Program, Geographic Data BC, Ministry of Environment, Lands and Parks. Ecological Significance second growth forests - Due to the paucity of older forests in this maps by the recent Sensitive Habitat Atlas project coordinated by Flight Number Date flown The ecological significance of these sensitive *terrestrial ecosystems* is primarily based on their fragility and rarity, but also on the region, larger stands of 60-100 year old forest were identified as the Habitat and Enhancement Branch, DFO, Vancouver. potential areas of future older forests. They also provide June 26, 1979 Victoria, 1993. variety and number of species they support. Older forests - Forests connecting corridors between other natural areas. BC86061 1:15,000 July 21, 1986 older than 100 years are rare in this region. Structural features of 092G.021 092G.022 Although not included in this particular inventory, streams and lakes are equally important. They are vital to the survival of fish, BCB90014 1:15,000 June 21, 1990 The SEI data is intended to be used for a wide variety of land-use these forests are important to many species including birds of For further information please contact: prey, small mammals and amphibians. Woodlands - These planning processes. For site-specific evaluations, more detailed BCC90017 1:15,000 July 10, 1990 B.C. Conservation Data Centre (250) 387-0732 ecosystems include open stands of Garry oak (the only native oak waterfowl and amphibian populations as well as the associated assessments are recommended. The accuracy of the boundaries BCB90019 1:15,000 July 10, 1990 http://www.elp.gov.bc.ca/rib/wis/cdc aquatic organisms and vegetation upon which these populations species in western Canada) and mixed stands of Garry of the mapped SEI data is limited by the scale of the air photos on BCB90045 1:15,000 July 9, 1990 or
Environment Canada, Canadian Wildlife Service
(250)752-9611
http://www.cws-scf.ec.gc.ca oak/Arbutus, Garry oak/Douglas-fir and Arbutus/Douglas-fir. depend. For further information on aquatic ecosystems and their which the sites are delineated. Enlargement of the data beyond protection, please contact the Department of Fisheries and Oceans (DFO) or the B.C. Ministry of Environment, Lands and Parks. the source scale may result in unacceptable distortion and Urbanization has destroyed most of these woodlands and the few

remaining sites are under constant threat of development.

faulty registration with other data sets. The scales and dates