**Data Descriptions** (defined on Group Layer Properties)

**Mamu\_Consolid\_2012**

This database is a compilation of data, recording many types of marbled murrelet observations and habitat values, from numerous sources over several years.

**Audio\_Visual\_Dawn\_Surveys‏** (dawnAV\_VI)

Audio-visual dawn surveys follow RISC protocol (or early precursors to RISC) with similar methodology, but with some variability in the definition of "occupied" (pre-2001 “occupied behavior” included near-canopy circular flights). "Occupied" indicates nesting behaviour was observed in that vicinity (points indicate location of observer). More precise locations of birds exhibiting occupied behaviour are represented in the "Zones of Occupied Behavior" layer."Present" indicates birds were observed flying by, but were not exhibiting nesting behavior. "Not Detected" indicates no mamu were observed but does not mean that the stand is not occupied, nor that mamu are not present. ‘Not Defined’ indicates observer location is known but AV data is not reconciled with location. Raw data included in related table, and hyperlinks to reports and site maps are provided for more information.

**Zones\_of\_Occupied\_Behavior** (was named tdawn\_occup)

The zones of occupied behaviour indicate specific locations within the forest stand where occupied detections, as per RISC standards were observed: repeated stationary calls, perching or landing on branches, birds flying below, through, into or out of the canopy, discovery of an active nest or recent occupancy (chick or egg shell fragments on forest floor, fecal rings on branch) and in pre-2001 surveys, also by circular flights above the canopy (RISC, 2001).

**CWS\_1991 folder (includes survey and summary data – must relate tables in GIS )**

Dataset incomplete but ongoing; updated to RISC 2001protocol for Occupied Detections. Folder includes survey and summary data tables. Dataset includes fixed stations only. See Savard & Lemon, 1994

**Habitat\_Plots\_&\_Transects** (tmamu\_habitat was named thab\_plot)

NOTE: Data were converted to densities/ha for comparison purposes but VARIABILITY IN METHODOLOGY IS HIGH, due to variable sizes used for plot/transects and minimum tree diameter criteria in platform counts. (Data may be split into different data layers according to method type, in future versions.) Habitat plot and transect summary data combines Burger at al`s 2010 BC tree database with numerous VI surveys to create a VI tree summary database. Refer to Burger`s (2012) data methodology description. Platform densities visible at 1:10,000.

Burger's BC Tree Database (2010) used with additional data from FLNRO and licensees (see attribute table for sources.)

**Habitat\_ Zones\_Pt.Alberni**

Polygons were created and ranked in 2001 and are an evaluation of habitat values (where data existed) using a combination of forest cover maps, air photo interpretation, aerial overview surveys (pre-RISC methodology), ground transects (pre-RISC) and audio-visual surveys (early RISC). They are based on forest cover conditions in 2001.

**Inland\_radar\_sites\_perm\_Nimpkish** (was named radar\_sites\_perm)

Locations of long-term monitoring radar survey sites at inland sub-basins in the Nimpkish River Valley have been mapped but data have not yet been loaded.

John Deal and Sue MacDonald, Western Forest Products

**Radar\_Sites\_1\_Nimpkish** (was named Radar\_Sites\_1)

Locations of radar survey sites at inland sub-basins in the Nimpkish River Valley have been mapped but data have not yet been loaded.

John Deal and Sue MacDonald, Western Forest Products

**At\_Sea\_Zones\_of\_Aggregation** (was named At\_Sea\_Zones\_of\_Aggregation ??)

Polygons illustrate known areas of consistently high numbers of marbled murrelets, observed at sea during the breeding season. NOTE: MANY COASTAL AREAS HAVE NOT BEEN SURVEYED AND DENSITIES ARE UNKNOWN. SOME DATA IS OLD AND POSSIBLY NO LONGER REPRESENTATIVE, SO ZONES MUST BE CONSIDERED AS TENTATIVE AND OPEN TO REVISION. Interpretations by Alan Burger are drawn from quantitative and qualitative sightings in published and unpublished reports, using a variety of methods. Data are compiled in Burger, 2007 "Identification of At-Sea Aggregations to Support Regional Core Area Mapping for Marbled Murrelets in British Columbia", Draft Report. Data can be viewed in the attribute tables.

Dr. Alan Burger, University of Victoria (draft report, 2007)

**SFU\_Nest sites**

Known nest site locations provided by SFU. Additional nest sites from other sources will be added.

Dr. David Lank, SFU