Vegetatation Classification R Scripts

## 0 Import and cleanup of vegetation data exported from Vpro

Read in BECMaster VPro R export with lifeform

All letters to upper case

Round digits to 3

Remove any null values

Matches codes to the USysAllSpecs

Saves "VegDat\_Clean.RData"

Option to merge plots codes from imported Lump table

Saves “VegData\_Lumped.RData”

Generate some statistics on the imported dataset:

Number of plots

Number of unique taxa and count of occurrences

Number of unique species and count of occurences

## 01 Summarize data by classification units

Uses cleaned data set from 0\_Import and an imported LevelUnits table exported from Vpro (plots with all hierarchical levels

User -selected Hierarchical level

Reduces vegData to only those plots that full under the hierarchy levels

Rolls up to Summary data based on Hierarchical units (Const and MeanCov)

Statistics on units

Species without >60% constancy in any one of the compared units is removed to create a

\_Differential dataset

1\_1 Site Unit Exploration

Cluster Analysis

1\_2 Pairwise Diagnostics

Same procedure as in 01\_

Uses cleaned data set from 0\_Import and an imported LevelUnits table exported from Vpro (plots with all hierarchical levels

User -selected Hierarchical level

Reduces vegData to only those plots that full under the hierarchy levels

Compare diagnostic value sums in comparison between two units

1\_3 CART related analysis