ALGORITHM:

1. For each species, first visit and second (F and S), create an indicator variable that is 1 for plot *i* in stratum *h* where the species is present and zero where they are not.
2. Multiply the plot temperature value for first and second visit plots occupied by the tree species of interest by this indicator variable. This is
3. Calculate the sums of the indicator variables and temperatures of occupied plots within strata:

1. Calculate the weighted value for the sum of occupied plot temperatures and estimated domain size

1. **Calculate the ratio as:**

**SAVE**

1. Calculate the uncorrected sum of squares (for Eqn 7):

1. Calculate the variances for each stratum of Z and Y (up to ):

1. Calculate the weighted variances for Z and Y (new, eqn 13):
2. Calculate the cross-products ‘within’ first and second visits (F and S):
3. Calculate the covariances (up to ):

1. Calculate the covariance of each visit-pair estimator (new, eqn 14):
2. **Calculate the variance of the ratios - SAVE:**
3. Calculate the cross-products ‘between’ first and second visits:

1. Calculate the cross-product covariances for each stratum (up to ):

1. Calculate the weighted cross-product covariances

1. **Estimate the variance of the difference between ratios - SAVE:**

UFFFFFF!!!!