

Stan code of Model 2 “M2”. This model integrated detection non-detection data from recces and SCNC and density data from SCNC in SNP and its corridor in two periods, P1 (2002 - 2008) and P2 (2012 and 2018).

```
// Specify function defining the prior for the iCAR (Morris et al., 2019)

functions {
////// Period 1
real icarl_normal_lpdf( vector lambda1, int[] node1, int[] node2) {
  return -0.5 * dot_self(lambda1[node1] - lambda1[node2])
  + normal_lpdf(sum(lambda1)| 0, 0.001 * Ro);
}
////// Period 2
real icar2_normal_lpdf(vector lambda2, int Ro, int[] node1, int[] node2) {
  return -0.5 * dot_self(lambda2[node1] - lambda2[node2])
  + normal_lpdf(sum(lambda2)| 0, 0.001 * Ro);
}

data {
//////Data dimensions
int<lower=0> Ro;//number of cells for occupancy estimation
int<lower=0> Rd1;//number of transects for density estimation
int<lower=0> Rd2;//number of transects for density estimation
int<lower=0> R_pred;//number of cells for prediction
int<lower=0> J;//number of methods used = 2
int<lower=0> T;//number of periods investigated = 2
int<lower=0> n_sect;//number of sectors = 9
int<lower=0> n_sect1;//number of sectors P1, occupancy = 5
int<lower=0> n_sect2;//number of sectors P1, density = 4

//////Datasets containing presence/absence and density data
int<lower=-5,upper=1> o [Ro,J,T]; //presence absence matrix (with NAs) for final
estimates of occurrence probability
vector<lower=-5>[Rd1] d_1; //density vector for estimating number of bonobo nests
vector<lower=-5>[Rd2] d_2; //density vector for estimating number of bonobo nests
int<lower=-5,upper=1> z_1 [Rd1]; //0-1 matrix for estimating process producing zeroes
on transects
int<lower=-5,upper=1> z_2 [Rd2]; //0-1 matrix for estimating process producing zeroes
on transects
int<lower=-5,upper=1> d_observed_1 [Rd1]; //positive density vector (with NAs) for
estimation of process producing zeroes
int<lower=-5,upper=1> d_observed_2 [Rd2]; //positive density vector (with NAs) for
estimation of process producing zeroes
int<lower=-5,upper=1> O_observed [R_pred,J,T]; //presence absence matrix (with NAs)
for final estimates of occurrence probability

//////Continuous covariates
//occupancy
vector [Ro] F;//forest
matrix [Ro,T] C;//distance to cities
matrix [Ro,T] V;//distance to villages
matrix [Ro,T] R;//distance to rivers
//density P1
vector [Rd1] F1;//forest
vector [Rd1] C1;//distance to cities
vector [Rd1] V1;//distance to villages
vector [Rd1] R1;//distance to rivers
//density time 2
vector [Rd2] F2;//forest
vector [Rd2] C2;//distance to cities
vector [Rd2] V2;//distance to villages
vector [Rd2] R2;//distance to rivers
//prediction
vector [R_pred] Fp;//forest
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matrix [R_pred,T] Cp;//distance to cities
matrix [R_pred,T] Vp;//distance to villages
matrix [R_pred,T] Rp;//distance to rivers

//////Discrete covariates
int<lower=1> sect_o[Ro];//sectors for occupancy array
int<lower=1> sect_d1[Rd1];//sectors for density array, T = 1
int<lower=1> sect_d2[Rd2];//sectors for density array, T = 2
int<lower=1> sect_p[R_pred];//sectors for prediction grid
int<lower=1> K[Ro,T];//patrol post within 15km (yes/no) for occupancy array
int<lower=1> K_d1[Rd1];//sectors for occupancy array (yes/no) for density array
int<lower=1> K_d2[Rd2];//sectors for occupancy array (yes/no) for density array
int<lower=1> K_p[R_pred,T];//sectors for occupancy array (yes/no) for density array
int<lower=1> surv_d1[Rd1];
int<lower=1> surv_d2[Rd2];//sectors for occupancy array (yes/no) for density array
int<lower=1> surv_p[R_pred,T];//sectors for occupancy array (yes/no) for density
array

//////Effort
vector [T] L [Ro,J]; //path length for estimating occurrence probability

//////Other quantities
int<lower=0> Nest; //number of nests
int<lower=1> n_periods;
int<lower=1> periods[Nest];
int decayed[Nest]; //id for censored nests "0", and decayed nests "1"
real<lower=0> days_to_event[Nest]; //days until full decay (or until last observation
day for censored). Model all nests (length(nu) = Nest), ordered by year, then you can
extract the decay you need in gq

//////iCAR components
int<lower=0> N_edges;
int<lower=1, upper=Ro> node1[N_edges]; // node1[i] adjacent to node2[i]
int<lower=1, upper=Ro> node2[N_edges]; // and node1[i] < node2[i]

}

transformed data{

real production = 1.37; // Define nest production rate
real decomposition_P1 = 85.5; // Define nest decomposition in P1
real decomposition_P2 = 106.7; // Define nest decomposition in P2

}

parameters {
vector [J] alpha [T];// intercept and control parameter for detection probability
vector<lower=0> [J] eta [T];
vector[n_sect1] alpha1_1; //intercept psi
real<lower=0,upper=1> alpha1_1_unsurveyed; //intercept psi for unsurveyed sub-sectors
in P1
vector[n_sect] alpha1_2; //intercept psi
vector<lower=0,upper=1> [n_sect2] phi1; //intercept phi1
vector<lower=0,upper=1> [7] phi2; //intercept phi2
vector[n_sect2] alpha4; //intercept mu1
vector[n_sect] alpha5; //intercept mu2

//////// Slopes occupancy model
// P1
real betal_1;
vector [2] beta2_1 [n_sect1] ;
vector [2] beta3_1 [n_sect1] ;
vector [2] beta4_1 [n_sect1] ;
vector [2] beta5_1;
// P2
real betal_2;
vector [2] beta2_2 [n_sect] ;

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vector [2] beta3_2 [n_sect] ;
vector [2] beta4_2 [n_sect] ;
vector [2] beta5_2;

//////// Slopes nest density
// P1
real delta1_1;
real delta2_1;
real delta3_1;
real delta4_1;
vector[2] delta5_1;//pp proximity
//P2
real delta1_2;
real delta2_2;
real delta3_2;
real delta4_2;
vector[2] delta5_2;//pp proximity

//////// Other parameters
vector<lower=0>[J] theta;//overdispersion parameter for mu, year specific
vector<lower=0>[n_periods] nu;//shape parameter in nest decay gamma survival model
real<lower=0> chi;//overdispersion parameter for nu

//iCAR-specific parameters
real<lower=0> sigma[T];// overall standard deviation
vector[Ro] lambda1;// spatial effects P1
vector[Ro] lambda2;// spatial effects P2

}

model {
//// define parameters (if defined here, then they are not stored)
real p; // detection probability
real psi; // occurrence probability
real mu1; // mean nest density in period 1
real mu2; // mean nest density in period 2

//////priors

for(j in 1:J){

    alpha[j] ~ normal(0,1.4);
    eta[j] ~ normal(0,2);
}

phi1~beta(2,2);
phi2~beta(2,2);

//////intercepts
alpha1_1~ normal(0,1.4); //occupancy P1
alpha1_1_unsurveyed ~ normal(0,1.4); //occupancy P1, unsurveyed subsectors
alpha1_2~ normal(0,1.4); //occupancy P2

alpha4~ normal(0,5); //nest density P1
alpha5~ normal(0,5); //nest density P2
//////slopes
//occupancy P1
beta1_1~ normal(0,0.5); //F

for (i in 1:n_sect1){
    beta2_1[i]~ normal(0,0.5); //C
    beta3_1[i]~ normal(0,0.5); //V
    beta4_1[i]~ normal(0,0.5); //R
}
//occupancy P2
beta1_2~ normal(0,0.5); //F
for (i in 1:n_sect){

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beta2_2[i]~ normal(0,0.5); //C
beta3_2[i]~ normal(0,0.5); //V
beta4_2[i]~ normal(0,0.5); //R
}

beta5_1~ normal(0,1.4); //K in P1
beta5_2~ normal(0,1.4); //K in P2

//nest density P1
delta1_1~ normal(0,0.5); //F
delta2_1~ normal(0,0.5); //C
delta3_1~ normal(0,0.5); //V
delta4_1~ normal(0,0.5); //R
delta5_1~ normal(0,0.5); //K
//nest density P2
delta1_2~ normal(0,0.5); //F
delta2_2~ normal(0,0.5); //C
delta3_2~ normal(0,0.5); //V
delta4_2~ normal(0,0.5); //R
delta5_2~ normal(0,0.5); //K

theta ~ gamma(0.1,0.1); //overdispersion parameter

//nest decay
nu ~ gamma(10,0.1);      //mean nest decomposition time
chi ~ gamma(0.1,0.1);     //overdispersion parameter

//iCAR priors
sigma ~ normal(0, 1);
lambda1 ~ icarl_normal_lpdf(Ro, node1, node2);
lambda2 ~ icar2_normal_lpdf(Ro, node1, node2);

//# Model detection and occurrence probability jointly
for (r in 1:Ro){
  for (j in 1:J){
    for (t in 1:T){
      if (t == 1){

        p = inv_logit(alpha[j,1] + eta[j,1] * L[r,j,1]);

        if(sect_o[r] < 6){

          psi = inv_logit(alpha1_1[sect_o[r]] + beta1_1 * F[r] +
beta2_1[sect_o[r],K[r,1]] * C[r,1] + beta3_1[sect_o[r],K[r,1]] * V[r,1] +
beta4_1[sect_o[r],K[r,1]] * R[r,1] + beta5_1[K[r,1]] + lambda1[r] * sigma[1]);

          if(o[r,j,1] == 1){ //site is occupied, at least one bonobo observation

            target += log(psi) + log(p); //occupancy rate is only conditional on the
probability of detection p

          }else{// site not occupied, no observed bonobo nests

            if (o[r,j,1] ==0){

              target += log_sum_exp(log(psi) + log(1-p), //occupancy rate, is
function of the probability of
log(1-psi)); //missing a nest and the probability
the cell is not occupied
            }
          }
        }else{

          psi = inv_logit(alpha1_1_unsurveyed + lambda1[r] * sigma[1]);

          if(o[r,j,1] == 1){ //site is occupied, at least one bonobo observation

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        target += log(psi) + log(p); //occupancy rate is only conditional on the
probability of detection p

    }else{// site not occupied, no observed bonobo nests

        if (o[r,j,1] ==0){

            target += log_sum_exp(log(psi) + log(1-p), //occupancy rate, is
function of the probability of
                                         log(1-psi)); //missing a nest and the probability
the cell is not occupied
        }
    }
}

else{
    p = inv_logit(alpha[j,2] + eta[j,2] * L[r,j,2]);
    psi = inv_logit(alpha1_2[sect_o[r]] + beta1_2 * F[r] +
beta2_2[sect_o[r],K[r,2]] * C[r,2] + beta3_2[sect_o[r],K[r,2]] * V[r,2] +
beta4_2[sect_o[r],K[r,2]] * R[r,2] + beta5_2[K[r,2]] + lambda2[r] * sigma[2]);

    if(o[r,j,2] == 1){ //site is occupied, at least one bonobo observation

        target += log(psi) + log(p); //occupancy rate is only conditional on the
probability of detection p

    }else{// site not occupied, no observed bonobo nests

        if (o[r,j,2] ==0){

            target += log_sum_exp(log(psi) + log(1-p), //occupancy rate, is
function of the probability of
                                         log(1-psi)); //missing a nest and the probability
the cell is not occupied
        }
    }
}
}

//////COUNT MODEL
for (r in 1:Rd1){
    if(d_observed_1[r] == 1){
        if(z_1[r] > -1){

            z_1[r] ~ bernoulli(phi1[surv_d1[r]]);
        }
    }
}

for (r in 1:Rd2){
    if(d_observed_2[r] == 1){
        if(z_2[r] > -1){

            z_2[r] ~ bernoulli(phi2[surv_d2[r]]);
        }
    }
}

///////////COUNT MODEL
for (r in 1:Rd1){
    {

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    mu1 = exp(alpha4[sect_d1[r]] + delta1_1 * F1[r] + delta2_1 * C1[r] + delta3_1 *
v1[r] + delta4_1 * R1[r] + delta5_1[K_d1[r]]);

    if (d_1[r] > 0){//if we found nests on the line transect, then mu:
    {
        d_1[r] ~ gamma(mu1 * theta[1], theta[1]);
    }
}
}

for (r in 1:Rd2){
{
    mu2 = exp(alpha5[sect_d2[r]] + delta1_2 * F2[r] + delta2_2 * C2[r] + delta3_2 *
v2[r] + delta4_2 * R2[r] + delta5_2[K_d2[r]]);

    if (d_2[r] > 0){//if we found nests on the line transect, then mu:
    {
        d_2[r] ~ gamma(mu2 * theta[2], theta[2]);
    }
}
}

//NEST DECAY MODEL
for ( i in 1:Nest )
    if ( decayed[i] == 0 ) target += gamma_lccdf(days_to_event[i] | nu[periods[i]] * chi, chi);
    for ( i in 1:Nest )
        if ( decayed[i] == 1 ) days_to_event[i] ~ gamma( nu[periods[i]] * chi, chi);
}

generated quantities{

    real psi_pred1 [Ro,T];      //predicted mean density
    real p_pred1 [Ro,J,T];      //predicted mean density
    int o_pred [R_pred,J,T];    //predicted occupancy by method
    int o_out [R_pred,T];       //predicted occupancy
    real phi_pred [n_sect,T];   //predicted probability to find nests on transect

    int D_pos_pred [R_pred,T];//predicted transects with nests
    real D_pred[R_pred,T];     //predicted nest density

    real decay [T];            //period-specific nest decay

    real occupied[T];          //proportion of occupied cells for trend analysis
    real tot_bonobo[T,3];      //total abundance in the block for trend analysis
    real occupied_P2;           //occupied cells in P2
    real tot_bonobo_P2[3];      //total bonobo in P2, whole Park
    real trend_O;              //trend occupancy in sectors surveyed twice
    real trend_bonobo[3];       //trend bonobo population in sectors surveyed twice
    real sect_density[13];      //bonobo density in surveyed sectors
    real sect_abundance[13];    //bonobo abundance in surveyed sectors

    for ( r in 1:Ro){//predict detection probability to prediction grid
        for (j in 1:J){//scale detection probability to prediction grid
            for (t in 1:T){

                p_pred1[r,j,t] = inv_logit(alpha[j,t] + eta[j,t] * L[r,j,t]);
            }
        }
    }
}

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}

////Generate occurrence probability and mean density for the prediction grid

for (r in 1:Ro){//predicted occupancy (method specific)
  if(sect_o[r] < 6){

    psi_pred1[r,1] = inv_logit(alpha1_1[sect_o[r]] + beta1_1 * F[r] +
beta2_1[sect_o[r],K[r,1]] * C[r,1] + beta3_1[sect_o[r],K[r,1]] * V[r,1] +
beta4_1[sect_o[r],K[r,1]] * R[r,1] + beta5_1[K[r,1]] + lambda1[r] * sigma[1]);
    psi_pred1[r,2] = inv_logit(alpha1_2[sect_o[r]] + beta1_2 * F[r] +
beta2_2[sect_o[r],K[r,2]] * C[r,2] + beta3_2[sect_o[r],K[r,2]] * V[r,2] +
beta4_2[sect_o[r],K[r,2]] * R[r,2] + beta5_2[K[r,2]] + lambda2[r] * sigma[2]);

  }else{

    psi_pred1[r,1] = inv_logit(alpha1_1_unsurveyed + lambda1[r] * sigma[1]);
    psi_pred1[r,2] = inv_logit(alpha1_2[sect_o[r]] + beta1_2 * F[r] +
beta2_2[sect_o[r],K[r,2]] * C[r,2] + beta3_2[sect_o[r],K[r,2]] * V[r,2] +
beta4_2[sect_o[r],K[r,2]] * R[r,2] + beta5_2[K[r,2]] + lambda2[r] * sigma[2]);
  }
}

//// Predict occupancy for each method by averaging psi and p over 42km2 cells
for (r in 1:R_pred){
  for (j in 1:J){
    for (t in 1:T){
      {

        real psi_pred;
        real p_pred;
        psi_pred = mean(psi_pred1[(42*r-41):(42*r),t]);
        p_pred = mean(p_pred1[(42*r-41):(42*r),j,t]);

        // If we detect an animal, then we set the prediction to 1. i.e., we assume no
false positives
        if(O_observed[r,j,t]==1){
          O_pred[r,j,t] = 1;
        }

        //# If we dont detect an animal, then we set the prediction to the prob of
observeing a zero, even if occpancy is truly 1.
        // i.e., we assume that false negatives do occur
        if(O_observed[r,j,t]==0){
          O_pred[r,j,t] = bernoulli_rng((psi_pred * (1-p_pred)) / (psi_pred * (1-
p_pred) + (1-psi_pred)));
        }

        // If no methods are used to improve predictive accuracy, then occupancy
estimate alone is used
        if(O_observed[r,j,t]<0){
          O_pred[r,j,t] = bernoulli_rng(psi_pred);
        }
      }
    }
  }
}

//// Apply threshold assertion that a 1 with any method implies occupation
for (r in 1:R_pred){
  for (t in 1:T){
    if( sum(O_pred[r,,t])>0){

      O_out[r,t] = 1;

    } else{

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        O_out[r,t] = 0;
    }
}

//// Generate sub-sector specific probability of finding a nest on transects
phi_pred[1,1] = phil1[1];
phi_pred[2,1] = phil1[2];
phi_pred[3,1] = phil1[3];
phi_pred[4,1] = phil1[4];
phi_pred[5,1] = mean(phi1);
phi_pred[6,1] = mean(phi1);
phi_pred[7,1] = mean(phi1);
phi_pred[8,1] = mean(phi1);
phi_pred[9,1] = mean(phi1);

phi_pred[1,2] = phi2[1];
phi_pred[2,2] = phi2[3];
phi_pred[3,2] = (phi2[3]+phi2[4])/2.0; // average of 2 surveys
phi_pred[4,2] = phi2[6];
phi_pred[5,2] = phi2[7];
phi_pred[6,2] = phi2[2];
phi_pred[7,2] = (phi2[3] + phi2[5])/2.0; // average of 2 surveys
phi_pred[8,2] = phi2[3];
phi_pred[9,2] = phi2[1];

//// Predict if a transect had nests in each 42km2 cell conditional on the cell being
occupied
for (r in 1:R_pred){
  for (t in 1:T){
    if(O_out[r,t]==1){

      D_pos_pred[r,t] = bernoulli_rng(phi_pred[sect_p[r],t]);

    }else{

      D_pos_pred[r,t] = 0;

    }
  }
}

//// Predict mean density in each 42km2 cell, conditional on the cell being occupied
and the transect having nests
for (r in 1:R_pred){
{
  real mu1;
  real mu2;

  if (sect_p[r] < 5){

    mu1 = exp(alpha4[sect_p[r]] + delta1_1 * Fp[r] + delta2_1 * Cp[r,1] +
delta3_1 * Vp[r,1] + delta4_1 * Rp[r,1] + delta5_1[K_p[r,1]]);
    mu2 = exp(alpha5[sect_p[r]] + delta1_2 * Fp[r] + delta2_2 * Cp[r,2] +
delta3_2 * Vp[r,2] + delta4_2 * Rp[r,2] + delta5_2[K_p[r,2]]);

    D_pred[r,1] = gamma_rng(mu1 * theta[1], theta[1]) * D_pos_pred[r,1];
    D_pred[r,2] = gamma_rng(mu2 * theta[2], theta[2]) * D_pos_pred[r,2];

  } else{

    mu1 = mean(exp(alpha4));
    mu2 = exp(alpha5[sect_p[r]] + delta1_2 * Fp[r] + delta2_2 * Cp[r,2] +
delta3_2 * Vp[r,2] + delta4_2 * Rp[r,2] + delta5_2[K_p[r,2]]);

    D_pred[r,1] = gamma_rng(mu1 * theta[1], theta[1]) * D_pos_pred[r,1];
    D_pred[r,2] = gamma_rng(mu2 * theta[2], theta[2]) * D_pos_pred[r,2];
  }
}
}

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        }
    }
}

////Final calculations

//// Calculate nest decay by period
decay[1] = (nu[1]+nu[2]+nu[3])/3;//nest decay period 1
decay[2] = (nu[4]+nu[5])/2;//nest decay period 2

//// Remaining calculation
for (t in 1:T){

    occupied[t] = sum(O_out[1:371,t]);//number occupied cells

    tot_bonobo[t,1] = (sum(D_pred[1:371,t]) / (production * decay[t])) .* 42;//total abundance in the block, for scenario i
    tot_bonobo[t,2] = (sum(D_pred[1:371,t]) / (production * mean(decay))) .* 42;
    tot_bonobo[t,3] = (sum(D_pred[1:371,t]) / (production * nu[1])) .* 42;

}

occupied_P2 = sum(O_out[1:R_pred,2]);//number of occupied cells in P2
trend_O = occupied[2]/occupied[1];//bonobo occupancy trend in sub-sectors surveyed twice for scenario i
tot_bonobo_P2[1] = (sum(D_pred[1:R_pred,2]) / (production * decay[2])) .* 42;
//bonobo abundance in SNP and corridor in P2 for scenario i
tot_bonobo_P2[2] = (sum(D_pred[1:R_pred,2]) / (production * mean(decay))) .* 42;
//bonobo abundance in SNP and corridor in P2 for scenario i
tot_bonobo_P2[3] = (sum(D_pred[1:R_pred,2]) / (production * nu[1])) .* 42; //bonobo abundance in SNP and corridor in P2 for scenario i

for ( i in 1:3){

    trend_bonobo[i] = tot_bonobo[2,i]/tot_bonobo[1,i];//bonobo abundance trend in sub-sectors surveyed twice for scenario i

}

////sectors mean density for table 1
////P1
sect_density[1] = mean(D_pred[1:24,1]) / (production * decay[1]); //Estate
sect_density[2] = mean(D_pred[25:184,1]) / (production * decay[1]); //Iyaelman
sect_density[3] = mean(D_pred[185:236,1]) / (production * decay[1]); //Lokofa
sect_density[4] = mean(D_pred[237:371,1]) / (production * decay[1]); //Lomela
////P2
sect_density[5] = mean(D_pred[1:24,2]) / (production * decay[2]); //Estate
sect_density[6] = mean(D_pred[25:184,2]) / (production * decay[2]); //Iyaelman
sect_density[7] = mean(D_pred[185:236,2]) / (production * decay[2]); //Lokofa
sect_density[8] = mean(D_pred[237:371,2]) / (production * decay[2]); //Lomela
sect_density[9] = mean(D_pred[372:591,2]) / (production * decay[2]); //Corridor
sect_density[10] = mean(D_pred[592:699,2]) / (production * decay[2]); //Mondjoku
sect_density[11] = mean(D_pred[700:781,2]) / (production * decay[2]); //Monkoto
sect_density[12] = mean(D_pred[782:924,2]) / (production * decay[2]); //South-West
sect_density[13] = mean(D_pred[925:1069,2]) / (production * decay[2]);
//Watshikengo

////sectors mean abundance for table 1
////P1
sect_abundance[1] = (sum(D_pred[1:24,1]) / (production * decay[1])) .* 42;
//Estate
sect_abundance[2] = (sum(D_pred[25:184,1]) / (production * decay[1])) .* 42;
//Iyaelman

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    sect_abundance[3] = (sum(D_pred[185:236,1]) / (production * decay[1])) .* 42;
//Lokofa
    sect_abundance[4] = (sum(D_pred[237:371,1]) / (production * decay[1])) .* 42;
//Lomela
////P2
    sect_abundance[5] = (sum(D_pred[1:24,2]) / (production * decay[2])) .* 42;
//Estate
    sect_abundance[6] = (sum(D_pred[25:184,2]) / (production * decay[2])) .* 42;
//Iyaelim
    sect_abundance[7] = (sum(D_pred[185:236,2]) / (production * decay[2])) .* 42;
//Lokofa
    sect_abundance[8] = (sum(D_pred[237:371,2]) / (production * decay[2])) .* 42;
//Lomela
    sect_abundance[9] = (sum(D_pred[372:591,2]) / (production * decay[2])) .* 42;
//Corridor
    sect_abundance[10] = (sum(D_pred[592:699,2]) / (production * decay[2])) .* 42;
//Mondjoku
    sect_abundance[11] = (sum(D_pred[700:781,2]) / (production * decay[2])) .* 42;
//Monkoto
    sect_abundance[12] = (sum(D_pred[782:924,2]) / (production * decay[2])) .* 42;
//South-West
    sect_abundance[13] = (sum(D_pred[925:1069,2]) / (production * decay[2])) .* 42;
//Watshikengo
}

```