

***PART A: The WinBUGS code for the best selected model sequentially fitted through R***

```

model
{
osub[1] ~ dpois(lambda[1])
u[1] ~ dbern(p[1])
lambda[1] <- (1 - u[1]) * mu[1]
log(mu[1]) <- -mu[1]
mul[1] ~ dnorm(M[1],U)
C[1]<- b1 + b2*susub[1] +b3*fasub[1] + alphab*exp(-alphab*x2[1])
M[1]<-C[1] + (log(mu[1])- C[1])*exp(-phi)

logit(p[1]) <-c1 +c2*x1sub[1] + alphac*exp(-alphac*x2[1])

for(k in 2:19519) {

D1[k]<-alphab*exp(-alphab*x2[k])
D2[k]<-alphac*exp(-alphac*x2[k])
}

for(i in 2:j){

V1[i]<-mean(D1[start[i]:end1[i]])
V2[i]<-mean(D2[start[i]:end1[i]])

osub[i] ~ dpois(lambda[i])
u[i] ~ dbern(p[i])
lambda[i] <- (1-u[i]) * (mu[i]+mu[i-1])*0.5
log(mu[i]) <- -mul[i]
mul[i] ~ dnorm(M[i],U)
C[i]<- b1 + b2*susub[i] +b3*fasub[i] + V1[i]
M[i]<-C[i] + (log(mu[i-1])- C[i])*exp(-phi)

logit(p[i]) <-c1 +c2*x1sub[i] + V2[i]
}

U<-(2*phi)/(1-exp(-2*phi))

phi ~ dnorm( 0, 0.1)I(0, )

alphab~dnorm( 0, 0.001)I(0, )
alphac~dnorm( 0, 0.001)I(0, )

b1 ~ dnorm(0 , prec)
b2 ~ dnorm(0 , prec)
b3 ~ dnorm(0 , prec)
prec <- pow(tau,-2)
tau ~ dunif(0,0.1)

c1 ~ dnorm(0 , prec1)
c2 ~ dnorm(0 , prec1)
prec1 <- pow(taul,-2)
taul ~ dunif(0,0.1)

}

```

Incorporation of  
spatial kernel

Ornstein-Uhlenbeck  
process

Prior  
distributions

## ***PART B: The R code for the sequential early warning monitoring system***

```
library(R2WinBUGS)
library(coda)
library(rootSolve)
```

```
covariate_data <- read.table ("covariate_data.txt", header=TRUE)
covariate_data
```

```
distance <- read.table ("distance.txt", header=TRUE)
distance
```

```
start <- read.table ("start.txt", header=TRUE)
start
```

```
y <- covariate_data$y
y
```

```
y.df <- data.frame(y)
y.df
```

Number of  
sheep pox cases  
(dependent  
variable)

```
x1 <- covariate_data$x1
x1
```

```
x1.df <- data.frame(x1)
x1.df
```

```
su <- covariate_data$sp
su
```

```
su.df <- data.frame(su)
su.df
```

```
fa <- covariate_data$fa
fa
```

```
fa.df <- data.frame(fa)
fa.df
```

Covariates (avg  
temp, summer,  
fall)

```
x2 <- distance$x2
x2
x2.df <- data.frame(distance)
x2.df
```

```
start <- start$start
start
```

```
start.df <- data.frame(start)
start.df
```

```
end1 <- start$end1
end1
```

```
end1.df <- data.frame(end1)
end1.df
```

Variable of  
distances  
between flocks  
(x2) and  
indicators for  
distances for  
each week (start,  
end1)

```
T<-73
```

```
for (j in 10:T)  
{
```

```
  ysub <- y.df[1:j, ]  
  ysub  
  x1sub <- x1.df[1:j, ]  
  x1sub  
  susub <- sp.df[1:j, ]  
  susub  
  fasub <- fa.df[1:j, ]  
  fasub
```

Selection of  
partial data for  
running  
sequential  
analysis

```
data<-list("j", "ysub", "x1sub", "spsub",  
"susub", "x2", "start", "end1")
```

```
inits <- function() {list (alphab=1, alphac=1,  
b1=0,b2=0, b3=0,c1=0, c2=0)}  
parameters <- c("alphab","alphac",  
"b1","b2","b3","c1","c2")  
model.sim<- bugs (data, inits, parameters,  
codaPkg=FALSE, "model.bug", n.chains=1, n.iter=6000,  
n.burnin=4000, n.thin=1,  
bugs.directory="C:/...../WinBUGS14/", debug=FALSE)
```

```
b1 = model.sim$sims.array[,1,1]  
b2 = model.sim$sims.array[,1,2]  
b3 = model.sim$sims.array[,1,3]  
alphab = model.sim$sims.array[,1,4]
```

```
lambda<-exp(median(b1) + median(b2)*su.df[j:j, ] + median(b3)*fa.df[j:j, ]  
+ median(alphab)*exp(-median(alphab)*x2.df[j:j, ]))
```

```
f<-function (q, lambda1) exp(q*lambda1)-q*exp(lambda1)  
root <- uniroot.all(f, c(0, 1),  
tol = 0.0000001, lambda1=lambda)  
print(root)
```

```
}
```

Sequential  
analysis for  
obtaining the  
early warning  
indicator

***PART C: The data***

[illegible]

39.09, 42.37, 48.59, 59.24, 52.27, 35.53, 48.01, 43.95, 42.62, 54.18, 65.65,  
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[illegible]

[illegible]

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