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]) <-mu1[1]
mu1[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]) <-mu1[i]
mu1[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(tau1,-2)
tau1 ~ 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


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

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
```

Number of sheep pox cases (dependent variable)

Covariates (avg temp, summer, fall)

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*

```
y = c( 1, 0, 1, 1, 1, 2, 5, 5, 2, 5, 2, 3, 2, 2, 1, 0, 2, 1, 6, 5, 0, 0, 2, 1, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 4, 4, 12, 26,
4, 21, 15, 12, 23, 7, 10, 9, 10, 1, 1, 2, 4, 5, 1, 1, 0, 1, 0, 1, 0) ,
x1 = c( 26.06667, 25.18571, 24.94286, 21.45714, 22.01429, 19.01429, 19.2, 11.5,
14.01429, 13.55714, 11.12857, 13.04286, 13.3, 11.22857, 10.81429, 5.6, 3.171429,
2.042857, 2.528571, 3.3, 4.728571, 4, 7.328571, 9.342857, 0.08571429, 5.485714,
11.4, 10.55714, 6.557143, 9.428571, 7.228571, 12.71429, 10.67143, 12.48571,
11.51429, 13.24286, 15.72857, 15.82857, 14.67143, 17.6, 19.38571, 20.7, 19.62857,
23.8, 21.02857, 23.4, 22.87143, 25.11429, 23.25714, 25.31429, 25.55714, 25.18571,
25.95714, 24.11429, 23.57143, 22.17143, 21.6, 19.3, 15.44286, 15.11429, 15.38571,
16.67143, 12.27143, 7.7, 9.685714, 12.6, 9.971429, 3.985714, 8.771429, 6.428571,
6.542857, 5.071429, 0.2) ,
su = c( 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
1, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0) ,
fa = c( 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 0, 0, 0, 0),
x2 = c( 0.52, 0.52, 12.48, 11.78, 17.36, 4.6, 4.47, 44.99, 44.11, 44.52, 10.01,
34.78, 24.29, 6.61, 0.56, 30.63, 6.01, 6.02, 10.47, 30.71, 10.77, 10.01, 6.41,
6.65, 10.43, 10.43, 28.56, 6.52, 3.32, 6.02, 0.82, 2.88, 2.45, 0.3, 5.33, 12.92,
12.77, 23.74, 69.93, 69.96, 52.27, 9.05, 69.86, 69.49, 69.27, 69.1, 22.86, 22.92,
0.45, 0.7, 72.56, 72.84, 72.86, 71.44, 61.82, 53.89, 69.12, 68.93, 68.16, 75.57,
65.14, 66.09, 64.9, 6.1, 39.09, 42.37, 48.59, 59.24, 52.27, 35.53, 48.01, 43.95,
42.62, 54.18, 65.65, 51.01, 51.66, 57.75, 32.2,
53.75, 61.82, 72.18, 77.43, 55.3, 61.78, 68.93, 46.13, 65.12, 65.6, 21.99, 74.79,
57.4, 25.97, 6.02, 76.64, 63.58, 78.81, 92.53, 74.71, 16.24, 82.58, 14.96, 5.34,
80.53, 20.98, 6.51, 18.64, 6.68, 0.52, 0.52, 12.48, 11.78, 17.36, 4.6, 4.47,
44.99, 44.11, 44.52, 10.01, 34.78, 24.29, 6.61, 0.56, 30.63, 6.01, 6.02, 10.47,
30.71, 10.77, 10.01, 6.41, 6.65, 10.43, 10.43, 28.56, 6.52, 3.32, 6.02, 0.82,
2.88, 2.45, 0.3, 5.33, 12.92, 12.77, 23.74, 69.93, 69.96, 52.27, 9.05, 69.86,
69.49, 69.27, 69.1, 22.86, 22.92, 0.45, 0.7, 72.56, 72.84, 72.86, 71.44, 61.82,
53.89, 69.12, 68.93, 68.16, 75.57, 65.14, 66.09, 64.9, 6.1, 39.09, 42.37, 48.59,
59.24, 52.27, 35.53, 48.01, 43.95, 42.62, 54.18, 65.65, 51.01, 51.66, 57.75, 32.2,
53.75, 61.82, 72.18, 77.43, 55.3, 61.78, 68.93, 46.13, 65.12, 65.6, 21.99, 74.79,
57.4, 25.97, 6.02, 76.64, 63.58, 78.81, 92.53, 74.71, 16.24, 82.58, 14.96, 5.34,
80.53, 20.98, 6.51, 18.64, 6.68, 0.52, 0.52, 12.48, 11.78, 17.36, 4.6, 4.47,
44.99, 44.11, 44.52, 10.01, 34.78, 24.29,
6.61, 0.56, 30.63, 6.01, 6.02, 10.47, 30.71, 10.77, 10.01, 6.41, 6.65, 10.43,
10.43, 28.56, 6.52, 3.32, 6.02, 0.82, 2.88, 2.45, 0.3, 5.33, 12.92, 12.77, 23.74,
69.93, 69.96, 52.27, 9.05, 69.86, 69.49, 69.27, 69.1, 22.86, 22.92, 0.45, 0.7,
72.56, 72.84, 72.86, 71.44, 61.82, 53.89, 69.12, 68.93, 68.16, 75.57, 65.14,
66.09, 64.9, 6.1, 39.09, 42.37, 48.59, 59.24, 52.27, 35.53, 48.01, 43.95, 42.62,
54.18, 65.65, 51.01, 51.66, 57.75, 32.2, 53.75, 61.82, 72.18, 77.43, 55.3, 61.78,
68.93, 46.13, 65.12, 65.6, 21.99, 74.79, 57.4, 25.97, 6.02, 76.64, 63.58, 78.81,
92.53, 74.71, 16.24, 82.58, 14.96, 5.34,
80.53, 20.98, 6.51, 18.64, 6.68, 0.52, 0.52, 12.48, 11.78, 17.36, 4.6, 4.47,
44.99, 44.11, 44.52, 10.01, 34.78, 24.29, 6.61, 0.56, 30.63, 6.01, 6.02, 10.47,
30.71, 10.77, 10.01, 6.41, 6.65, 10.43, 10.43, 28.56, 6.52, 3.32, 6.02, 0.82,
2.88, 2.45, 0.3, 5.33, 12.92, 12.77, 23.74, 69.93, 69.96, 52.27, 9.05, 69.86,
69.49, 69.27, 69.1, 22.86, 22.92, 0.45, 0.7, 72.56, 72.84, 72.86, 71.44, 61.82,
53.89, 69.12, 68.93, 68.16, 75.57, 65.14, 66.09, 64.9, 6.1, 39.09, 42.37, 48.59,
59.24, 52.27, 35.53, 48.01, 43.95, 42.62, 54.18, 65.65, 51.01, 51.66, 57.75, 32.2,
53.75, 61.82, 72.18, 77.43, 55.3, 61.78, 68.93, 46.13, 65.12, 65.6, 21.99, 74.79,
57.4, 25.97, 6.02, 76.64, 63.58, 78.81, 92.53, 74.71, 16.24, 82.58, 14.96, 5.34,
80.53, 20.98, 6.51, 18.64, 6.68, 0.52, 0.52, 12.48, 11.78, 17.36, 4.6, 4.47,
44.99, 44.11, 44.52, 10.01, 34.78, 24.29, 6.61, 0.56, 30.63, 6.01, 6.02, 10.47,
30.71, 10.77, 10.01, 6.41, 6.65, 10.43, 10.43, 28.56,
6.52, 3.32, 6.02, 0.82, 2.88, 2.45, 0.3, 5.33, 12.92, 12.77, 23.74, 69.93, 69.96,
52.27, 9.05, 69.86, 69.49, 69.27, 69.1, 22.86, 22.92, 0.45, 0.7, 72.56, 72.84,
72.86, 71.44, 61.82, 53.89, 69.12, 68.93, 68.16, 75.57, 65.14, 66.09, 64.9, 6.1,
```

39.09, 42.37, 48.59, 59.24, 52.27, 35.53, 48.01, 43.95, 42.62, 54.18, 65.65,
51.01, 51.66, 57.75, 32.2, 53.75, 61.82, 72.18, 77.43, 55.3, 61.78, 68.93, 46.13,
65.12, 65.6, 21.99, 74.79, 57.4, 25.97, 6.02, 76.64, 63.58, 78.81, 92.53, 74.71,
16.24, 82.58, 14.96, 5.34, 80.53, 20.98, 6.51, 18.64, 6.68, 0.52, 0.52, 12.48,
11.78, 17.36, 4.6, 4.47, 44.99, 44.11, 44.52,
10.01, 34.78, 24.29, 6.61, 0.56, 30.63, 6.01, 6.02, 10.47, 30.71, 10.77, 10.01,
6.41, 6.65, 10.43, 10.43, 28.56, 6.52, 3.32, 6.02, 0.82, 2.88, 2.45, 0.3, 5.33,
12.92, 12.77, 23.74, 69.93, 69.96, 52.27, 9.05, 69.86, 69.49, 69.27, 69.1, 22.86,
22.92, 0.45, 0.7, 72.56, 72.84, 72.86, 71.44, 61.82, 53.89, 69.12, 68.93, 68.16,
75.57, 65.14, 66.09, 64.9, 6.1, 39.09, 42.37, 48.59, 59.24, 52.27, 35.53, 48.01,
43.95, 42.62, 54.18, 65.65, 51.01, 51.66, 57.75, 32.2,
53.75, 61.82, 72.18, 77.43, 55.3, 61.78, 68.93, 46.13, 65.12, 65.6, 21.99, 74.79,
57.4, 25.97, 6.02, 76.64, 63.58, 78.81, 92.53, 74.71, 16.24, 82.58, 14.96, 5.34,
80.53, 20.98, 6.51, 18.64, 6.68, 0.01, 12.19, 11.41, 17.01, 4.55, 4.97, 44.71,
43.82, 44.23, 10.36, 34.45, 23.85, 6.95, 0.59, 30.97, 6.34, 6.35, 10.77, 31.04,
11.12, 10.36, 6.72, 6.45, 10.73, 10.73, 28.92, 6.26, 3.82, 6.35, 0.55, 2.7, 2.23,
0.48, 5.25, 13.13, 12.96, 23.35, 70.43, 70.46, 52.77, 9.02,
70.36, 69.99, 69.77, 69.6, 22.45, 22.5, 0.58, 0.3, 73.07, 73.35, 73.36, 71.95,
62.33, 54.4, 69.62, 69.43, 68.66, 76.06, 65.63, 66.6, 65.41, 5.89, 39.58, 42.87,
49.09, 59.75, 52.76, 36, 48.52, 44.44, 43.08, 54.69, 66.16, 51.51, 52.17, 58.26,
32.64, 54.27, 62.33, 72.69, 77.91, 55.8, 62.29, 69.43, 46.62, 65.61, 66.11, 22.4,
75.29, 57.9, 26.13, 6.35, 77.13, 64.07, 79.28, 92.95, 75.2, 15.85, 83.05, 15.23,
5.26, 81.01, 20.87, 6.27, 18.85, 6.42, 0.52, 0.52, 12.48, 11.78, 17.36, 4.6, 4.47,
44.99, 44.11, 44.52, 10.01, 34.78, 24.29, 6.61, 0.56, 30.63, 6.01, 6.02, 10.47,
30.71, 10.77, 10.01, 6.41, 6.65, 10.43, 10.43, 28.56, 6.52, 3.32, 6.02, 0.82,
2.88, 2.45, 0.3, 5.33, 12.92, 12.77, 23.74, 69.93, 69.96, 52.27, 9.05, 69.86,
69.49, 69.27, 69.1, 22.86, 22.92, 0.45, 0.7, 72.56, 72.84, 72.86, 71.44, 61.82,
53.89, 69.12, 68.93, 68.16, 75.57, 65.14, 66.09, 64.9, 6.1, 39.09, 42.37, 48.59,
59.24, 52.27, 35.53, 48.01, 43.95, 42.62, 54.18, 65.65, 51.01, 51.66, 57.75, 32.2,
53.75, 61.82, 72.18, 77.43, 55.3,
61.78, 68.93, 46.13, 65.12, 65.6, 21.99, 74.79, 57.4, 25.97, 6.02, 76.64, 63.58,
78.81, 92.53, 74.71, 16.24, 82.58, 14.96, 5.34, 80.53, 20.98, 6.51, 18.64, 6.68,
0.01, 12.19, 11.41, 17.01, 4.55, 4.97, 44.71, 43.82, 44.23, 10.36, 34.45, 23.85,
6.95, 0.59, 30.97, 6.34, 6.35, 10.77, 31.04, 11.12, 10.36, 6.72, 6.45, 10.73,
10.73, 28.92, 6.26, 3.82, 6.35, 0.55, 2.7, 2.23, 0.48, 5.25, 13.13, 12.96, 23.35,
70.43, 70.46, 52.77, 9.02, 70.36, 69.99, 69.77, 69.6, 22.45, 22.5, 0.58, 0.3,
73.07, 73.35, 73.36, 71.95, 62.33, 54.4, 69.62, 69.43,
68.66, 76.06, 65.63, 66.6, 65.41, 5.89, 39.58, 42.87, 49.09, 59.75, 52.76, 36,
48.52, 44.44, 43.08, 54.69, 66.16, 51.51, 52.17, 58.26, 32.64, 54.27, 62.33,
72.69, 77.91, 55.8, 62.29, 69.43, 46.62, 65.61, 66.11, 22.4, 75.29, 57.9, 26.13,
6.35, 77.13, 64.07, 79.28, 92.95, 75.2, 15.85, 83.05, 15.23, 5.26, 81.01, 20.87,
6.27, 18.85, 6.42, 0.52, 0.52, 12.48, 11.78, 17.36, 4.6, 4.47, 44.99, 44.11,
44.52, 10.01, 34.78, 24.29, 6.61, 0.56, 30.63, 6.01, 6.02, 10.47, 30.71, 10.77,
10.01, 6.41, 6.65, 10.43, 10.43, 28.56, 6.52, 3.32, 6.02, 0.82, 2.88, 2.45, 0.3,
5.33, 12.92, 12.77, 23.74, 69.93, 69.96, 52.27, 9.05, 69.86, 69.49, 69.27, 69.1,
22.86, 22.92, 0.45, 0.7, 72.56, 72.84, 72.86, 71.44, 61.82, 53.89, 69.12, 68.93,
68.16, 75.57, 65.14, 66.09, 64.9, 6.1, 39.09, 42.37, 48.59, 59.24, 52.27, 35.53,
48.01, 43.95, 42.62, 54.18, 65.65, 51.01, 51.66, 57.75, 32.2, 53.75, 61.82, 72.18,
77.43, 55.3, 61.78, 68.93, 46.13, 65.12, 65.6, 21.99, 74.79, 57.4, 25.97, 6.02,
76.64, 63.58, 78.81, 92.53, 74.71,
16.24, 82.58, 14.96, 5.34, 80.53, 20.98, 6.51, 18.64, 6.68, 0.01, 12.19, 11.41,
17.01, 4.55, 4.97, 44.71, 43.82, 44.23, 10.36, 34.45, 23.85, 6.95, 0.59, 30.97,
6.34, 6.35, 10.77, 31.04, 11.12, 10.36, 6.72, 6.45, 10.73, 10.73, 28.92, 6.26,
3.82, 6.35, 0.55, 2.7, 2.23, 0.48, 5.25, 13.13, 12.96, 23.35, 70.43, 70.46, 52.77,
9.02, 70.36, 69.99, 69.77, 69.6, 22.45, 22.5, 0.58, 0.3, 73.07, 73.35,
73.36, 71.95, 62.33, 54.4, 69.62, 69.43, 68.66, 76.06, 65.63, 66.6, 65.41, 5.89,
39.58, 42.87, 49.09, 59.75, 52.76, 36, 48.52, 44.44, 43.08, 54.69, 66.16, 51.51,
52.17, 58.26, 32.64, 54.27, 62.33, 72.69, 77.91, 55.8, 62.29, 69.43, 46.62, 65.61,
66.11, 22.4, 75.29, 57.9, 26.13, 6.35, 77.13, 64.07, 79.28, 92.95, 75.2, 15.85,
83.05, 15.23, 5.26, 81.01, 20.87, 6.27, 18.85, 6.42, 0.52, 0.52, 12.48, 11.78,
17.36, 4.6, 4.47, 44.99, 44.11, 44.52, 10.01, 34.78, 24.29,
6.61, 0.56, 30.63, 6.01, 6.02, 10.47, 30.71, 10.77, 10.01, 6.41, 6.65, 10.43,
10.43, 28.56, 6.52, 3.32, 6.02, 0.82, 2.88, 2.45, 0.3, 5.33, 12.92, 12.77, 23.74,
69.93, 69.96, 52.27, 9.05, 69.86, 69.49, 69.27, 69.1, 22.86, 22.92, 0.45, 0.7,
72.56, 72.84, 72.86, 71.44, 61.82, 53.89, 69.12, 68.93, 68.16, 0.52, 0.52, 12.48,
11.78, 17.36, 4.6, 4.47, 44.99, 44.11, 44.52, 10.01, 34.78, 24.29, 6.61, 0.56,
30.63, 6.01, 6.02, 10.47, 30.71, 10.77, 10.01, 6.41, 6.65, 10.43,

10.43, 28.56, 6.52, 3.32, 6.02, 0.82, 2.88, 2.45, 0.3, 5.33, 12.92, 12.77, 23.74,
69.93, 69.96, 52.27, 9.05, 69.86, 69.49, 69.27, 69.1, 22.86, 22.92, 0.45, 0.7,
72.56, 72.84, 72.86, 71.44, 61.82, 53.89, 69.12, 68.93, 68.16, 0.52, 0.52, 12.48,
11.78, 17.36, 4.6, 4.47, 44.99, 44.11, 44.52, 10.01, 34.78, 24.29, 6.61, 0.56,
30.63, 6.01, 6.02, 10.47, 30.71, 10.77, 10.01, 6.41, 6.65, 10.43, 10.43, 28.56,
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