() ARI:

$$\begin{array}{c} \text{(2)} \quad \underline{\text{Seasand}}: \\ |\log(\text{airp})_{c}| \; |\mathcal{X}, \Theta \sim \text{N(ni } 3^{2}) \\ |\log(\text{airp})_{c}| \; |\mathcal{X}, \Theta \sim \text{N(ni } 3^{2}) \\ |\log(\text{airp})_{c}| \; |\mathcal{X}, \Theta \sim \text{N(ni } 3^{2}) \\ |\log(\text{airp})_{c}| \; |\mathcal{X}, \Theta \sim \text{N(ni } 3^{2}) \\ |\log(\text{airp})_{c}| \; |\mathcal{X}, \Theta \sim \text{N(ni } 3^{2}) \\ |\log(\text{airp})_{c}| \; |\mathcal{X}, \Theta \sim \text{N(ni } 3^{2}) \\ |\log(\text{airp})_{c}| \; |\mathcal{X}, \Theta \sim \text{N(ni } 3^{2}) \\ |\log(\text{airp})_{c}| \; |\mathcal{X}, \Theta \sim \text{N(ni } 3^{2}) \\ |\log(\text{airp})_{c}| \; |\mathcal{X}, \Theta \sim \text{N(ni } 3^{2}) \\ |\mathcal{X}, \Theta \sim \text{N$$

NC SIDS

Y = cant of deaths due to SIDS

Y; N Paisson (N)

N; = Ei Yi

Vi = exp(Ni)

Colored control

Operation of the control

Colored contro

b) 
$$\eta_i = \beta o + \beta_i^* n_{up} \cdot n_{d} + Ui$$
 NST SPATIAL

 $U_i : \hat{J}^i N(o_i \sigma^*)$ 
 $F_i \text{ lited } \text{ model} : \hat{\eta}_i = -0.644 + 1.872 (n_{up} \cdot h_{d} + \chi_i) + U_i$ 
 $U_i \text{ where } U_i \times N(o_i \text{ fixed } I_i)$ 

C) 
$$\eta i = \beta o + \beta i^n n n \rho \cdot h d \tau k i + \langle V_i \rangle \text{ being}$$

$$V_i \mid V_i, \gamma \sim N\left(\frac{1}{n_i} \underset{i=1}{\overset{N}{\sim}} V_i, \frac{1}{n_i} \underset{biggs}{\overset{N}{\sim}} h_{ijpoponed}\right)$$

Filtrd model: 
$$\hat{\gamma}_{i} = -0.671 + 0.947 \text{ Number 76} i$$

where  $u_{i}^{n_{i}} \cdot v_{i}^{n_{i}} = \frac{18.966}{18.966} \left\{ \sqrt{-0.282} \ U_{i}^{2} + \sqrt{0.28} \ U_{i}^{2} \right\}$