$$y_i \sim \text{Weibull}(\sigma, \alpha)$$

$$\eta_{j[i]} \sim \text{Normal}(0, \sigma_c)$$

$$\sigma_c \sim \text{half-Cauchy}(2.5)$$

$$h_i \sim \text{MultiNormal}(0, \Sigma)$$

$$\Sigma = \sigma_p^2 \mathbf{V}_{phy}$$

$$\sigma_p \sim \text{half-Cauchy}(2.5)$$

$$\beta \sim \text{Normal}(0, 10)$$

$$\alpha \sim \text{half-Cauchy}(2.5)$$