Generalised Additive Model Mean Posterior Prediction 95%-Bayesian CI Abundance 200 100 Avg_OP_percent_3km **Linear Model Cubic model Quadratic Model** Linear Mean Posterior Prediction Quadratic Mean Posterior Prediction Cubic Mean Posterior Prediction — GAM Mean Posterior Prediction GAM Mean Posterior Prediction **GAM Mean Posterior Prediction** 95%-Bayesian Cl 95%-Bayesian Cl 95%-Bayesian Cl Abundance 200 300 300 Abundance 200 100 100 Avg_OP_percent_3km Avg_OP_percent_3km Avg_OP_percent_3km