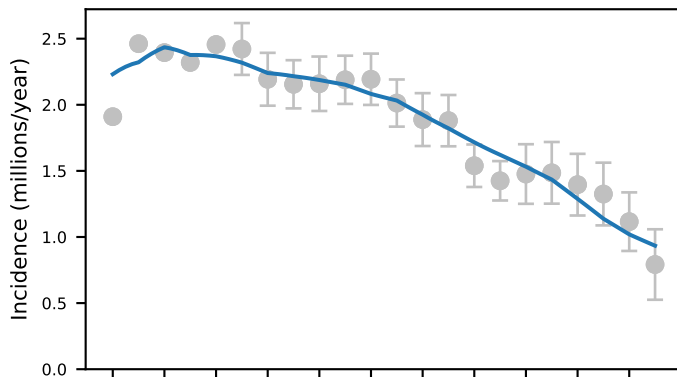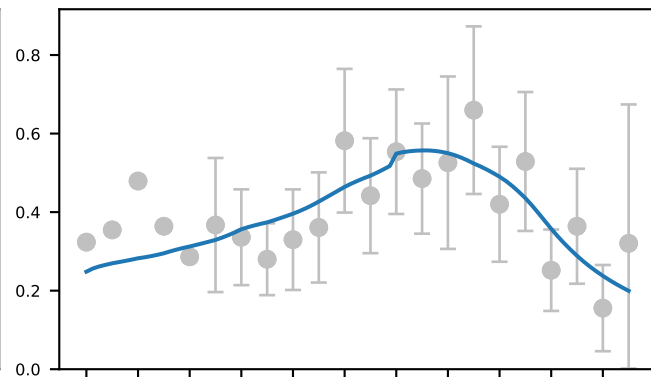Model fit to data for selected variables