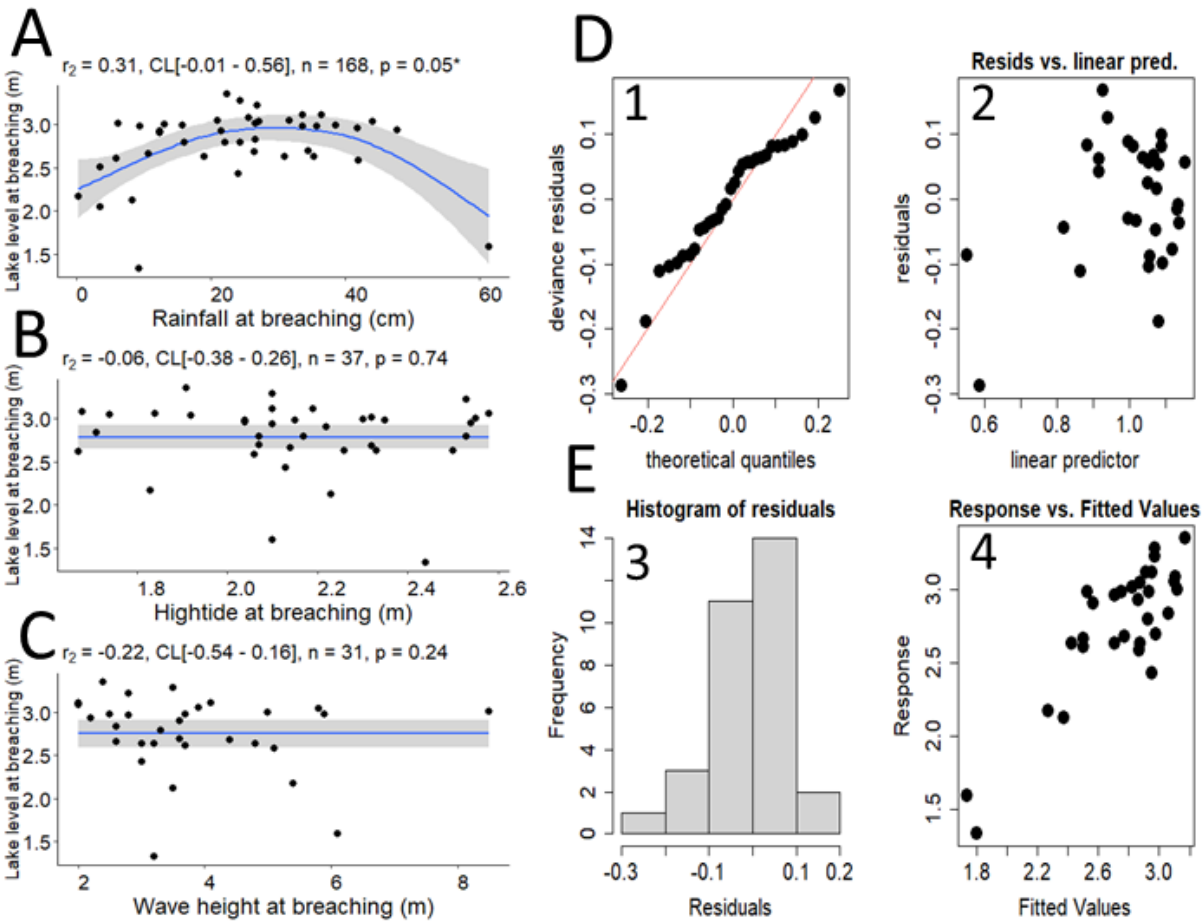**Appendix III.** Best fit multivariate Generalized Additive Model (GAM) plots for surface lake elevation versus: A) rainfall + B) hightide + C) wave height. $D_{1-2}$ and $E_{3-4}$ show fit diagnostics for the multiple regression model.