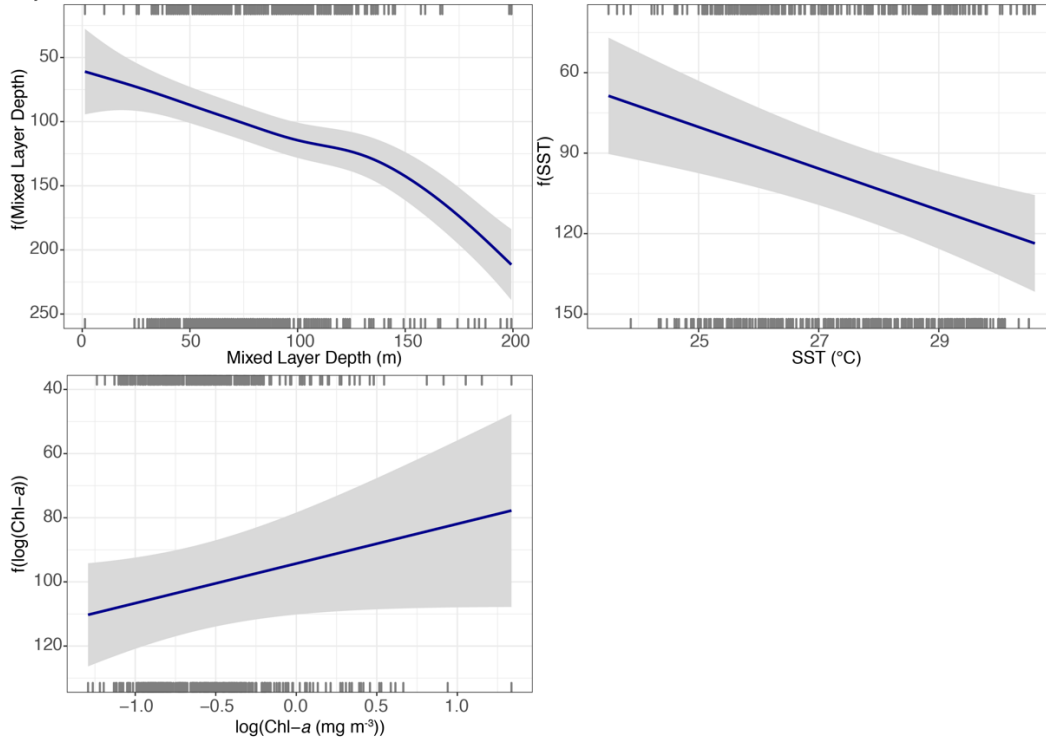
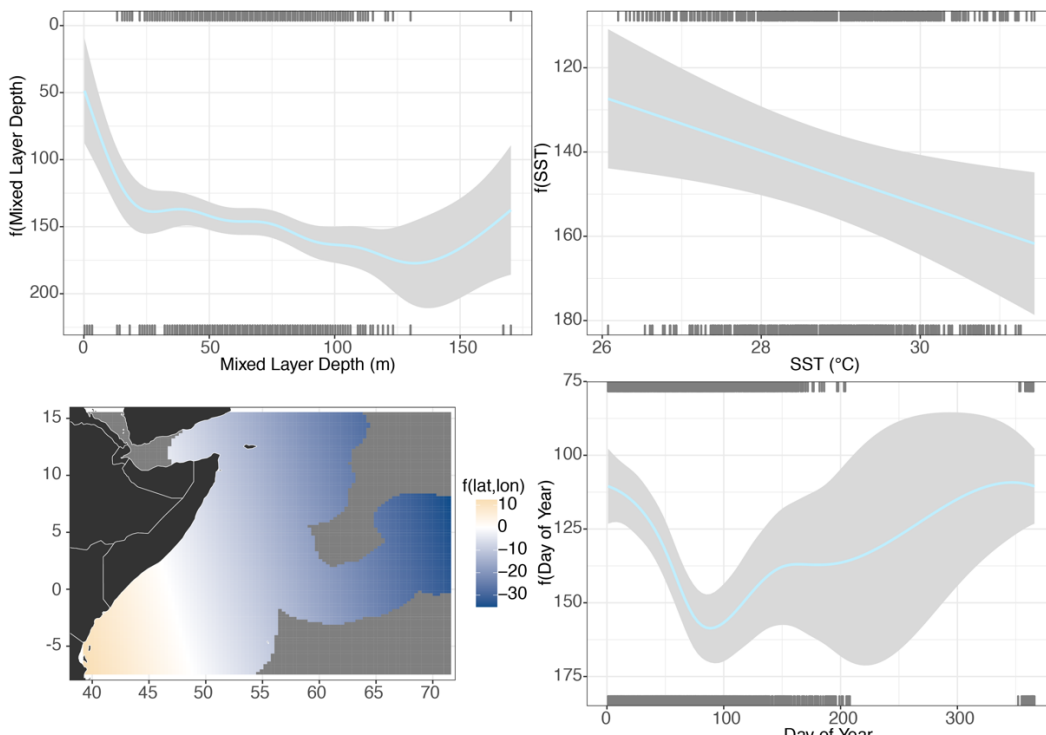


**Fig. S1.** High-resolution temperature and depth data recorded every 5 seconds from retrieved tag #151784 showing crepuscular deep dives, with dashed vertical lines indicating local sunrise and sunset of the corresponding day. The deepest dive of the whole track (13 days long) was on 1st of January (panel A – 24 h overview). It started ~5 min after sunset and had a ~10 min period at the deepest depth (panel B – 1 h detailed dive profile).

**A) Black Marlin**



**B) Striped Marlin**



**Fig. S2.** Generalised additive mixed model outputs with maximum daily dive depth as the response for A) black marlin and B) striped marlin, with smoothed predictors in blue, confidence intervals in grey shading and the residuals as grey rug plots. OMZ = oxygen minimum zone, SST = sea surface temperature, chl-*a* = chlorophyll-*a* concentration.