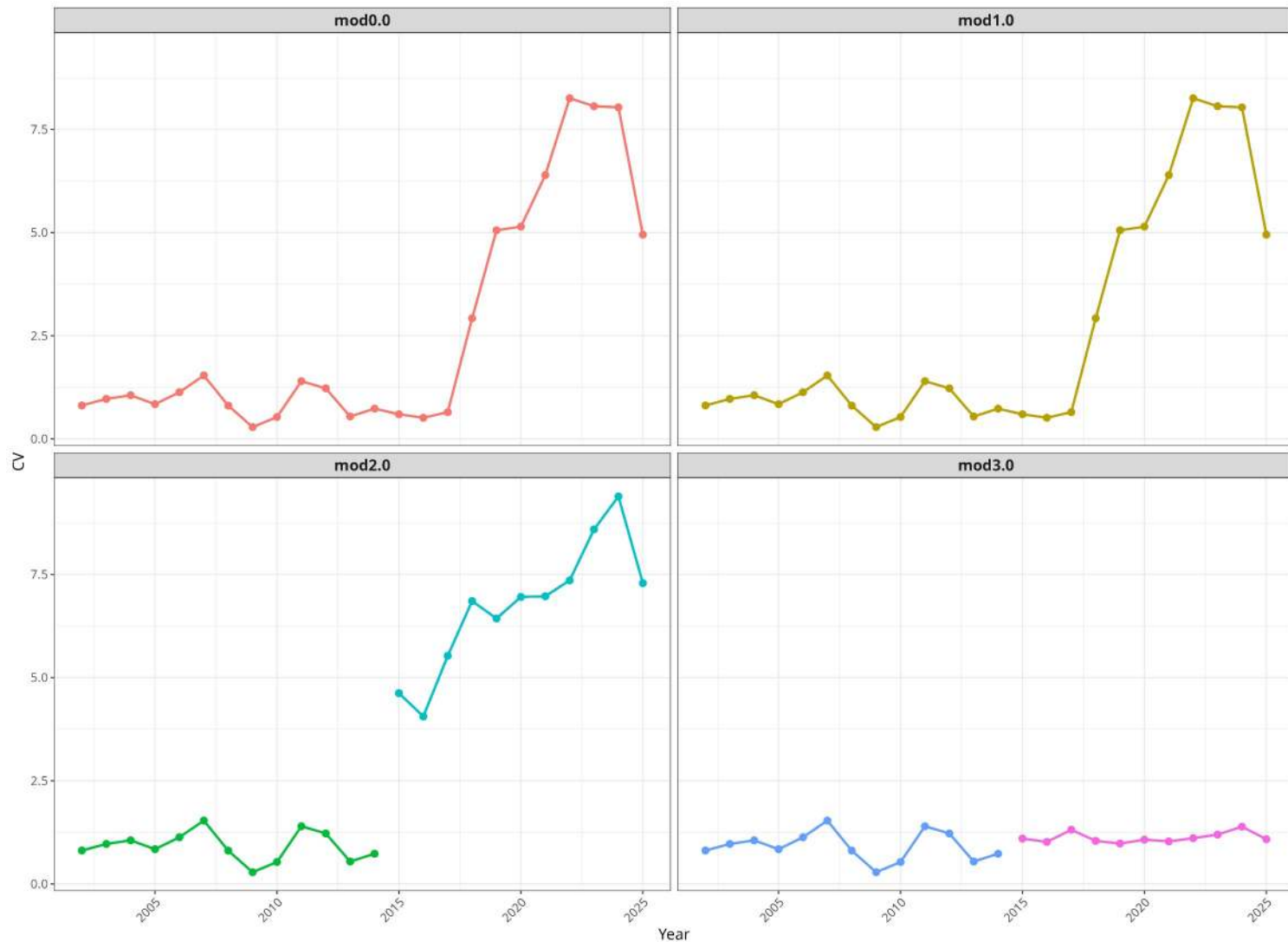


```
# A tibble: 11 × 4
```

	year	catch	Landing	pctj_catch
	<fct>	<dbl>	<dbl>	<dbl>
1	2015	<u>5231.</u>	<u>23036</u>	22.7
2	2016	<u>3528.</u>	<u>15121</u>	23.3
3	2017	<u>5601.</u>	<u>10094</u>	55.5
4	2018	<u>41751.</u>	<u>58356</u>	71.5
5	2019	<u>90302.</u>	<u>139811</u>	64.6
6	2020	<u>106248.</u>	<u>158880</u>	66.9
7	2021	<u>79406.</u>	<u>118096</u>	67.2
8	2022	<u>83626.</u>	<u>167297</u>	50.0
9	2023	<u>157823.</u>	<u>240571</u>	65.6
10	2024	<u>144421.</u>	<u>235117</u>	61.4
11	2025	<u>125456.</u>	<u>176240</u>	71.2



Mod0.0: As quota 2026 (2025 assessment) information up to november 2025 (block 1: CV=0.2 for 2002-2017, block 2: CV = 0.3 for 2018-2025).

Mod1.0: As mod0.0 but with updated catches and length frequencies up to december 2025.

Mod2.0: As mod1.0 but with 3 abundance indices: acoustic (1985 - 2008, 2010 - 2013), old cpue 2002-2014 and new cpue 2015-2025.

Mod3.0: As mod2.0 with standard error estimated.

CV series

cv_mod0.0

cv_mod1.0

cv_mod2.0_1

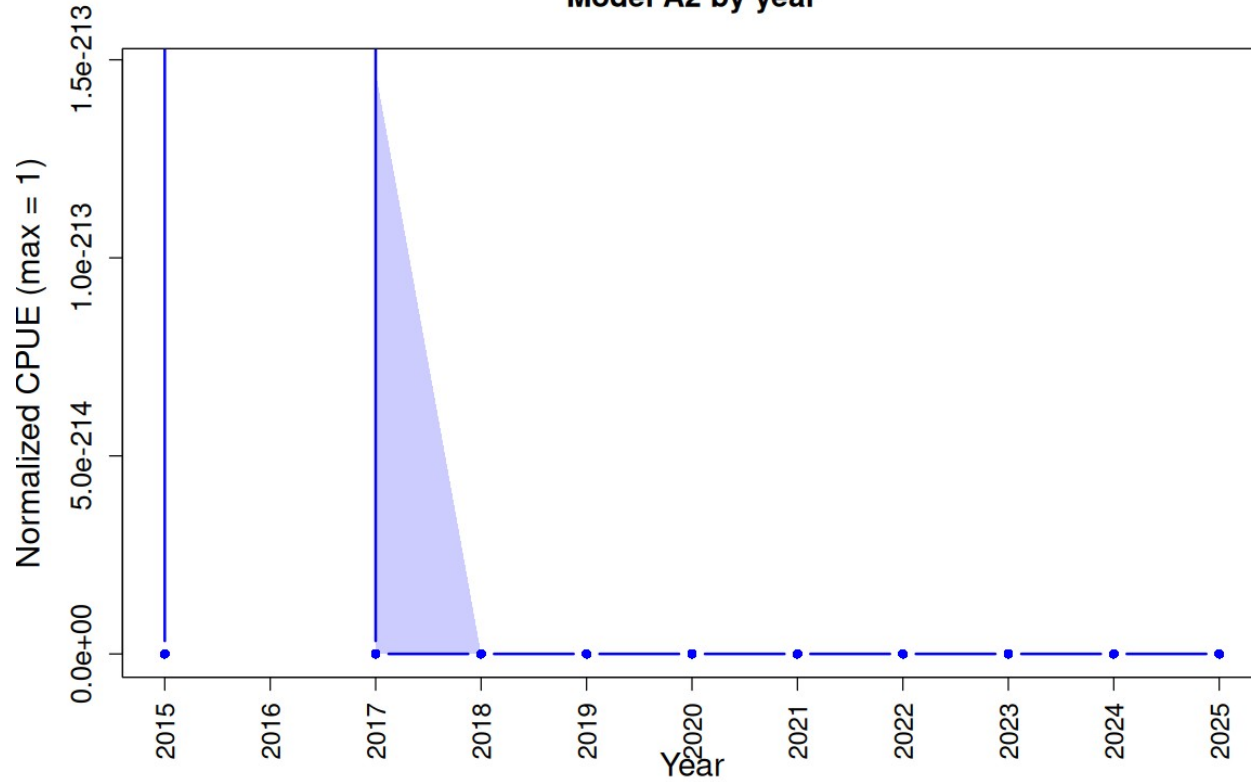
cv_mod2.0_2

cv_mod3.0_1

cv_mod3.0_2

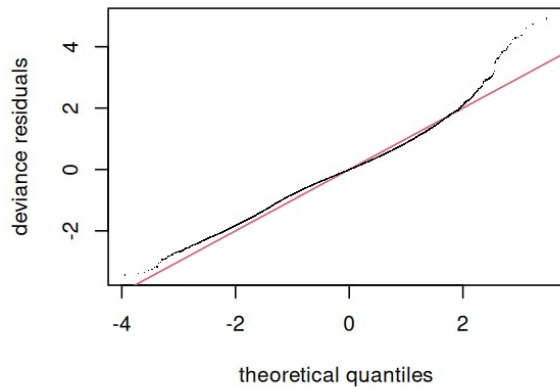
s(lon, lat, by = year)

Model A2 by year

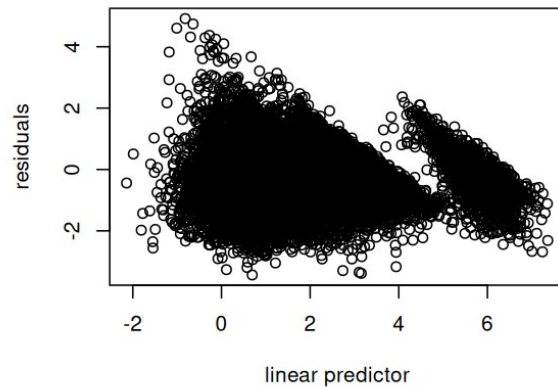


Catch ~ year + month + s(LON, LAT, by =
year) + s(HC) +
s(sst) + s(so) + offset(log(N_DIAS))

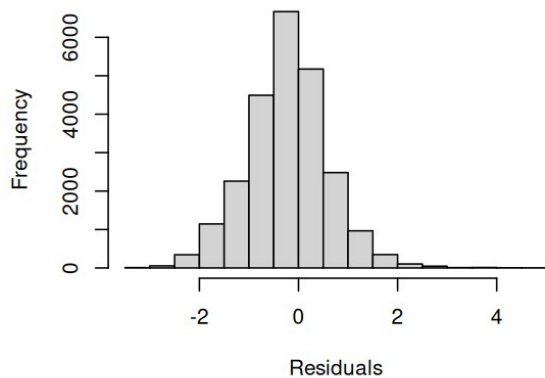
Year as a factor
variable



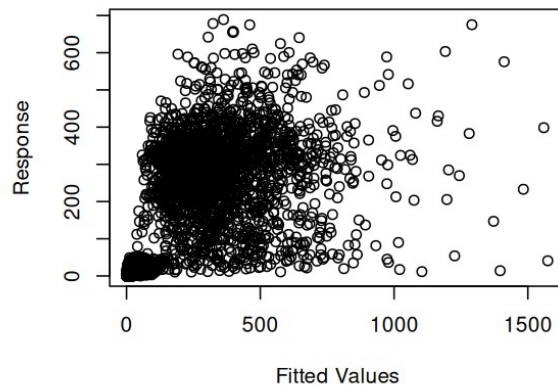
Resids vs. linear pred.

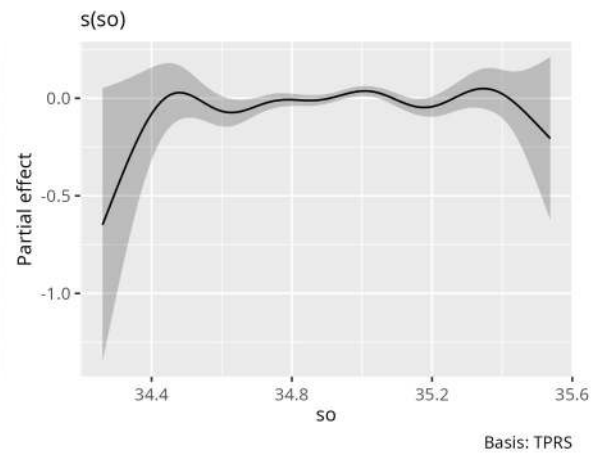
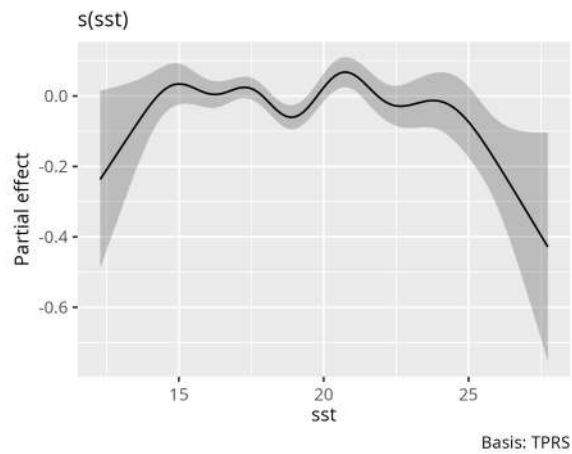
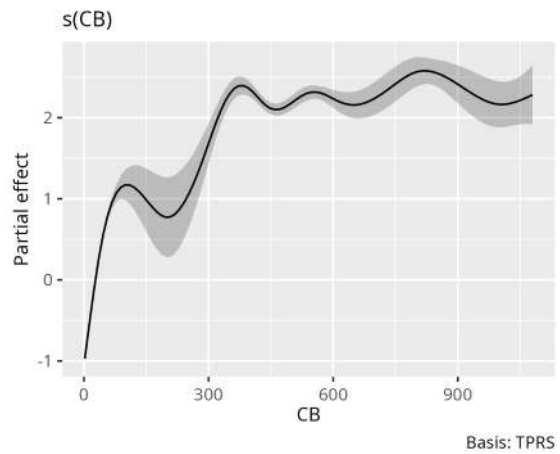
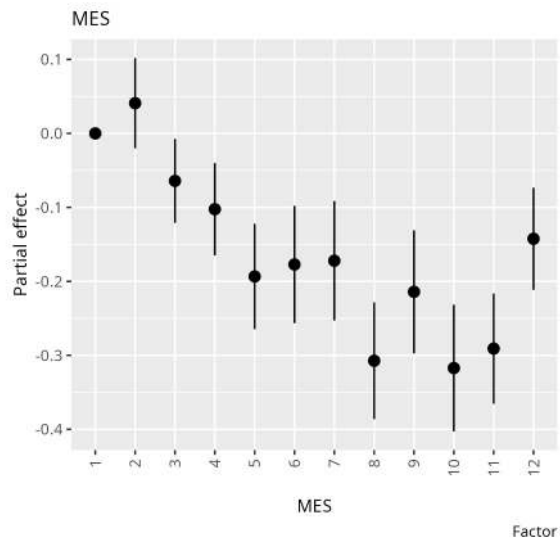
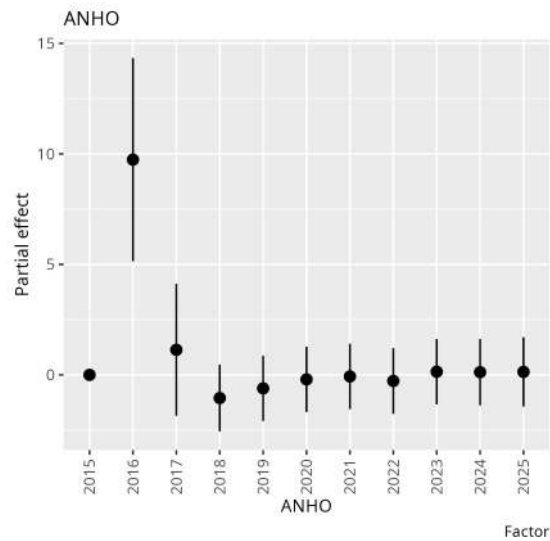


Histogram of residuals

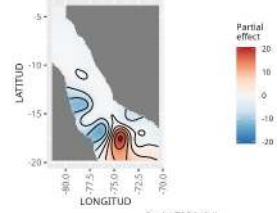


Response vs. Fitted Values



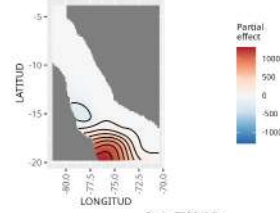


s(LONGITUD,LATTITUD)
By: ANHO; 2015



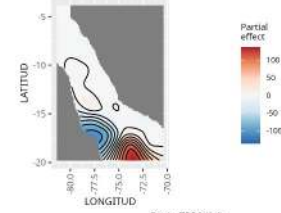
Basis: TPRS (2d)

s(LONGITUD,LATTITUD)
By: ANHO; 2016



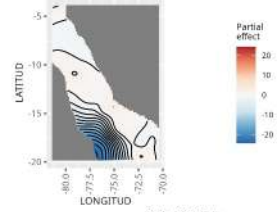
Basis: TPRS (2d)

s(LONGITUD,LATTITUD)
By: ANHO; 2017



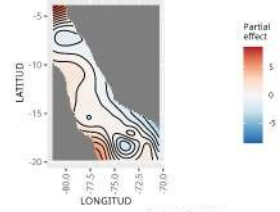
Basis: TPRS (2d)

s(LONGITUD,LATTITUD)
By: ANHO; 2018



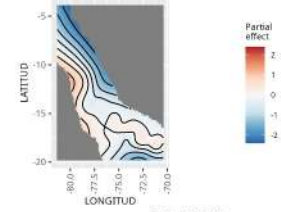
Basis: TPRS (2d)

s(LONGITUD,LATTITUD)
By: ANHO; 2019



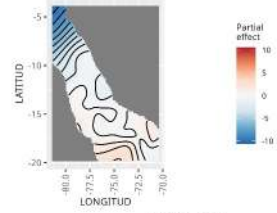
Basis: TPRS (2d)

s(LONGITUD,LATTITUD)
By: ANHO; 2020



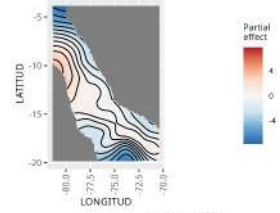
Basis: TPRS (2d)

s(LONGITUD,LATTITUD)
By: ANHO; 2021



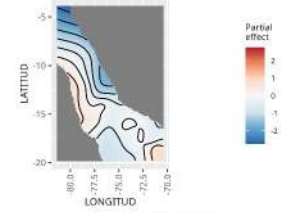
Basis: TPRS (2d)

s(LONGITUD,LATTITUD)
By: ANHO; 2022



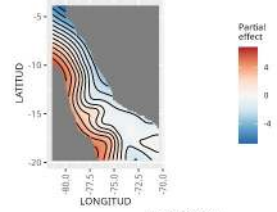
Basis: TPRS (2d)

s(LONGITUD,LATTITUD)
By: ANHO; 2023



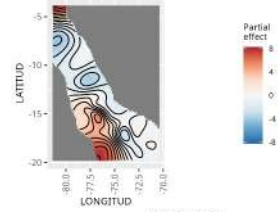
Basis: TPRS (2d)

s(LONGITUD,LATTITUD)
By: ANHO; 2024

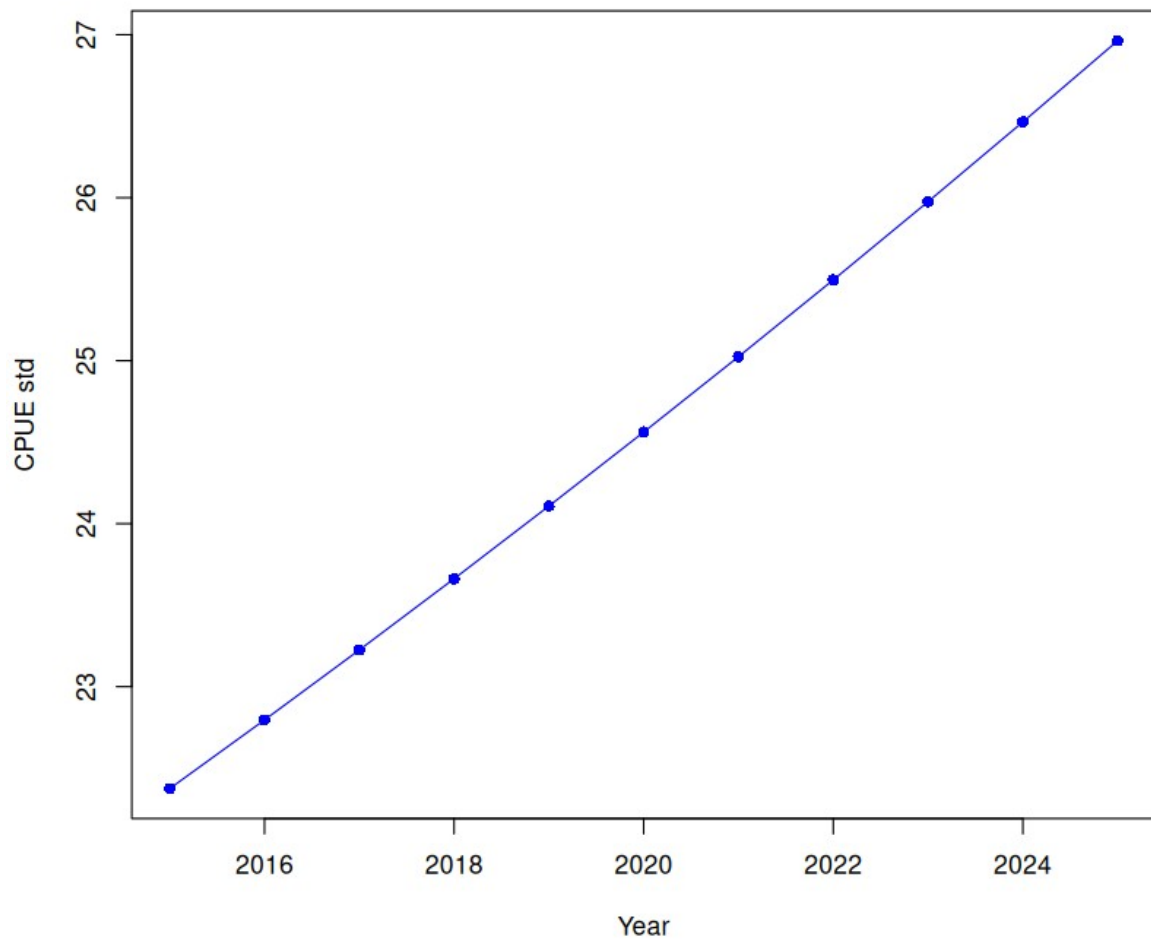


Basis: TPRS (2d)

s(LONGITUD,LATTITUD)
By: ANHO; 2025

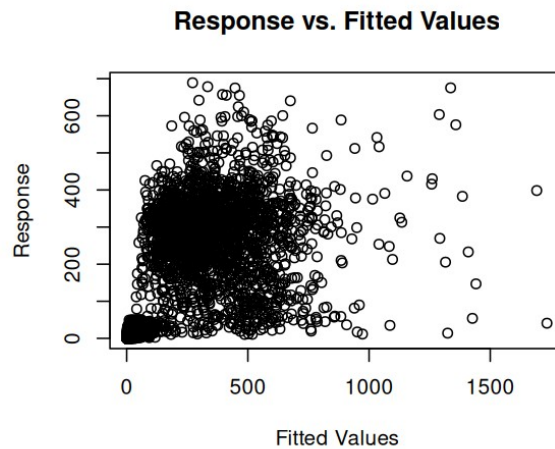
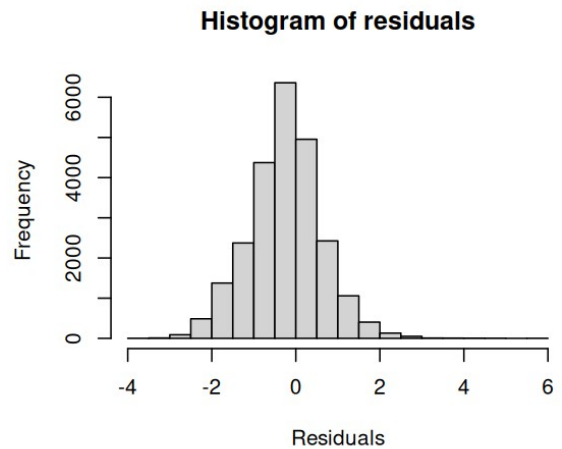
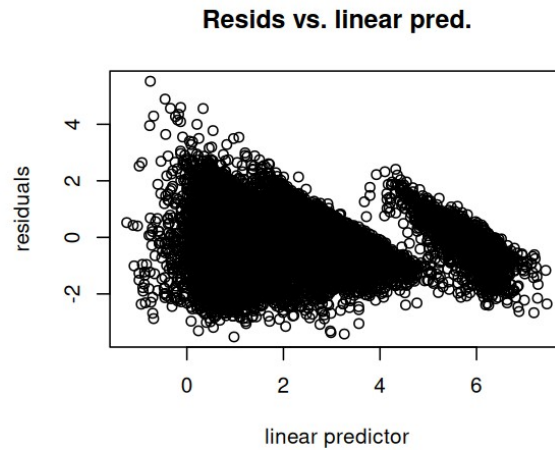
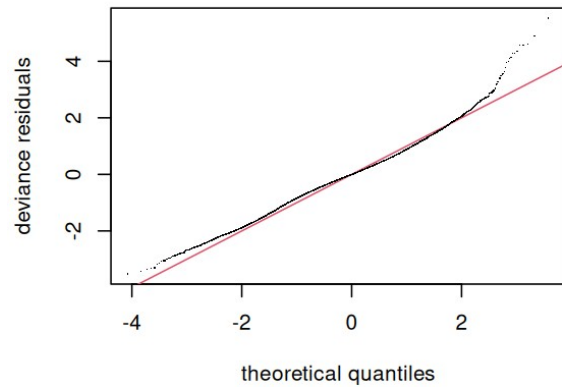


Basis: TPRS (2d)

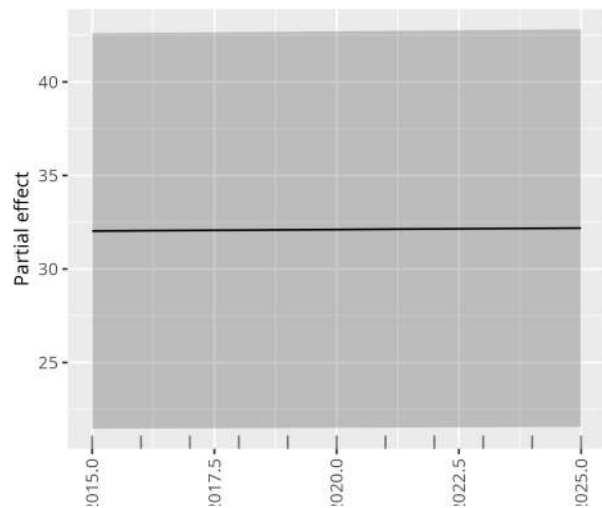


```
catch ~ year + month  
+ s(LON, LAT, by =  
year) + s(HC) +  
s(sst) + s(so) +  
offset(log(N_DIAS))
```

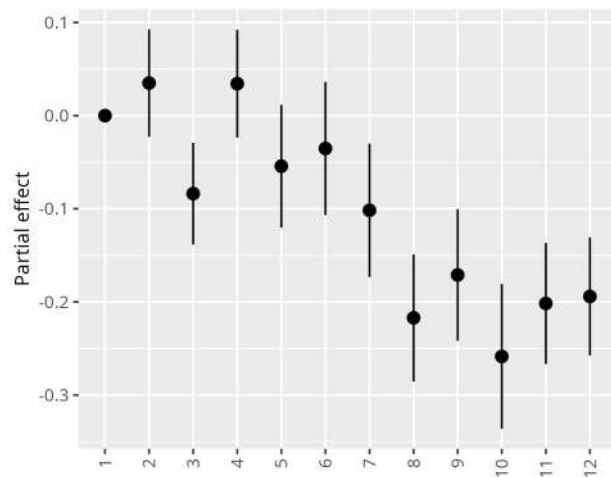
Year as a numeric
variable



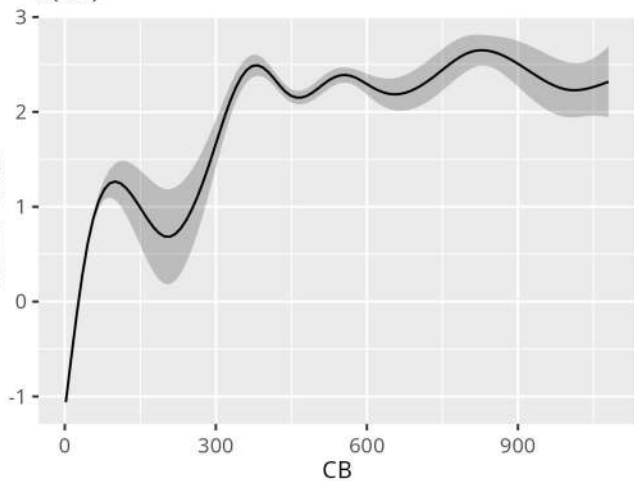
ANHO



MES

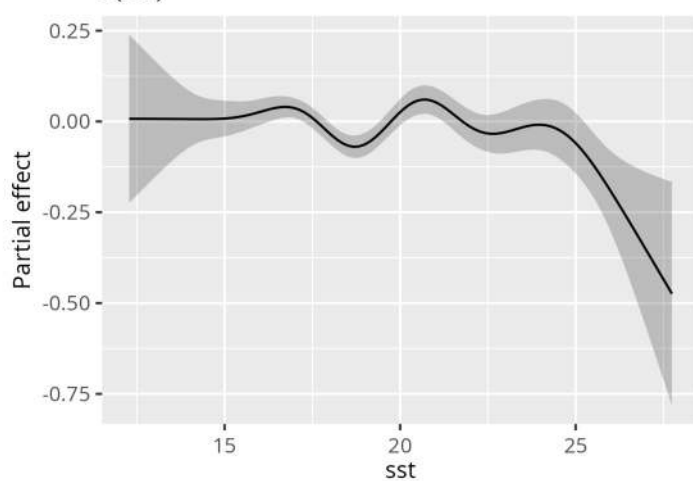


s(CB)



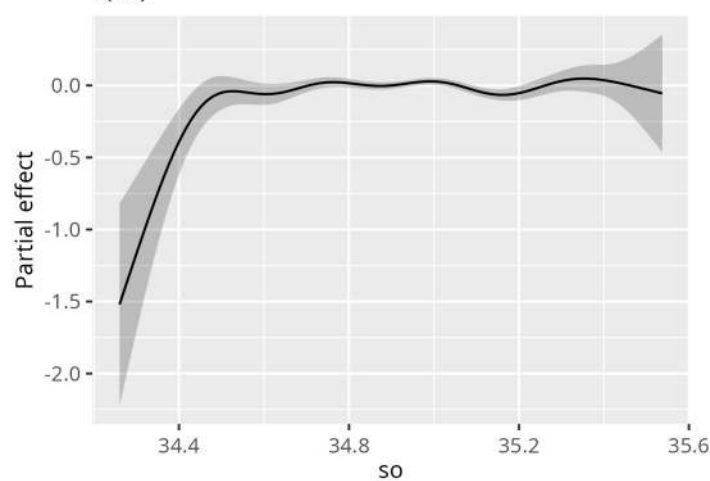
Basis: TPRS

s(sst)



Basis: TPRS

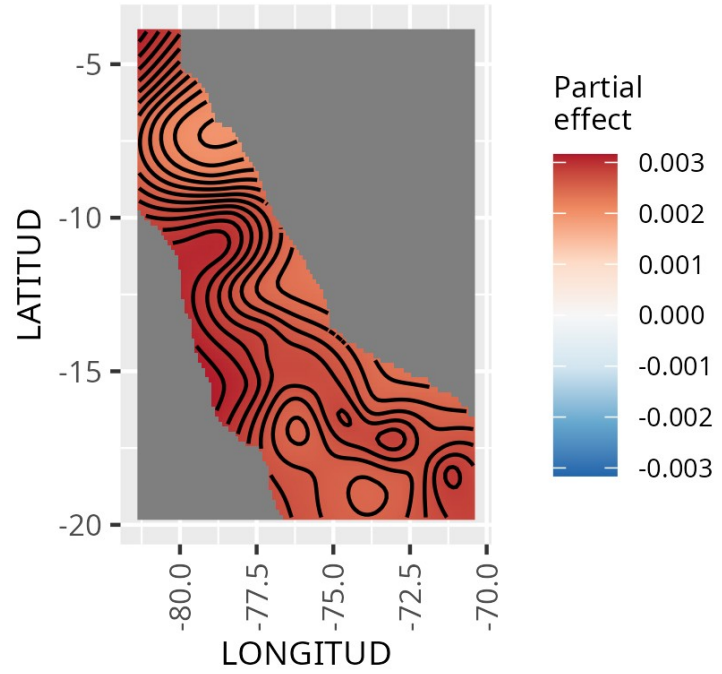
s(so)



Basis: TPRS

s(LONGITUD,LATITUD)

By: ANHO



Basis: TPRS (2d)