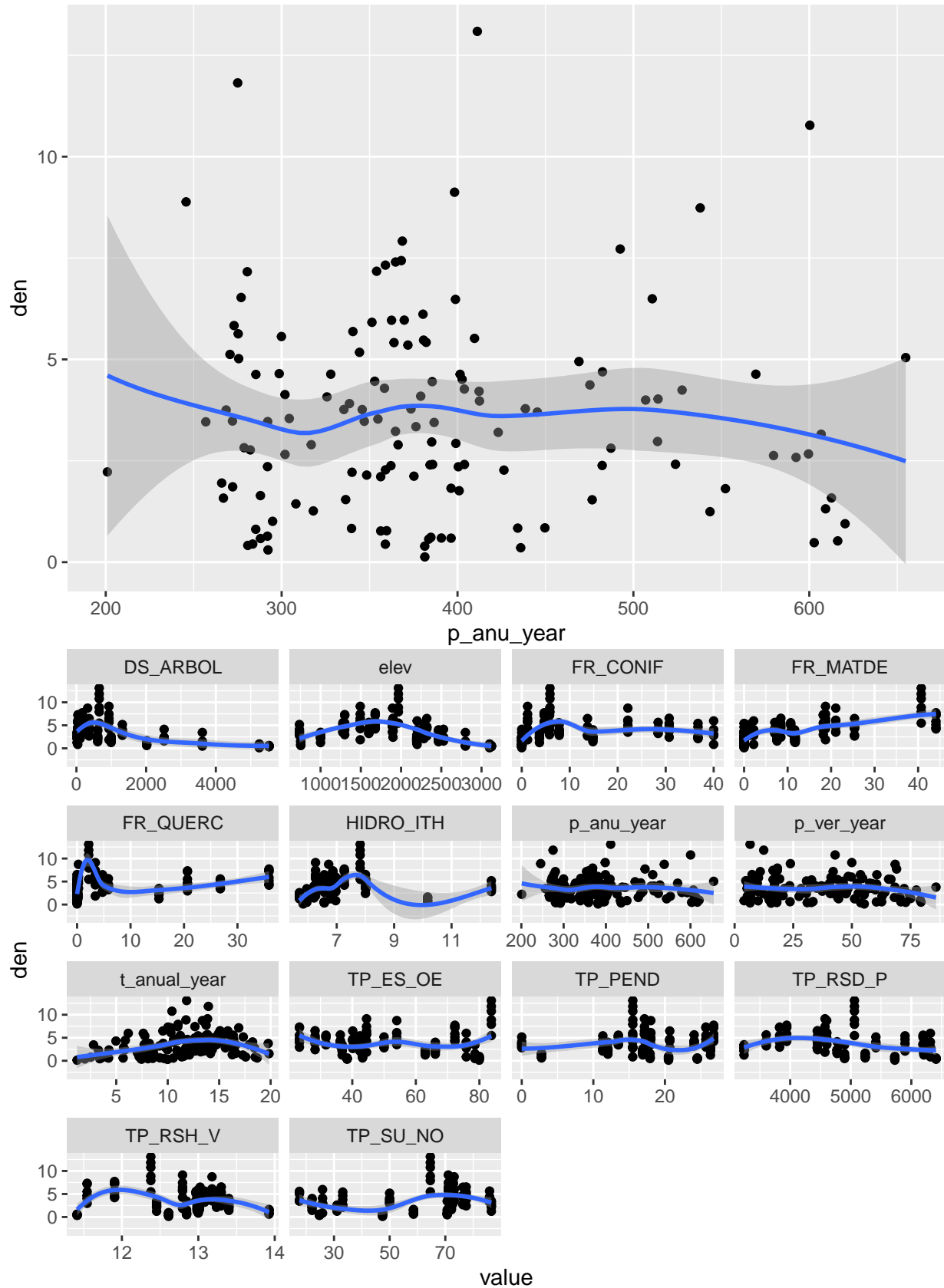


modela Densidad pdf

Explora variables



Selección via VIF

Variance inflation factors

	GVIF
TP_PEND	18.733129
FR_MATDE	5.332493
TP_SU_NO	77.011617
FR_QUERC	6.744059
FR_CONIF	4.709830
TP_RSH_V	6.306512
HIDRO_ITH	9.930089
elev	12.872846
TP_ES_OE	1.723477
DS_ARBOL	13.111944
TP_RSD_P	99.027235
p_anu_year	1.218943
p_ver_year	1.218924
t_anual_year	2.927638

Variance inflation factors

	GVIF
TP_PEND	18.202050
FR_MATDE	3.658258
TP_SU_NO	3.896966
FR_QUERC	4.185879
FR_CONIF	4.708816
TP_RSH_V	5.533327
HIDRO_ITH	9.712253
elev	11.912386
TP_ES_OE	1.721772
DS_ARBOL	11.220764
p_anu_year	1.215929
p_ver_year	1.211315
t_anual_year	2.915966

Variance inflation factors

	GVIF
FR_MATDE	2.254276
TP_SU_NO	1.459813
TP_RSH_V	1.711456
HIDRO_ITH	2.614135
elev	6.312014
TP_ES_OE	1.614165
DS_ARBOL	3.414437
p_anu_year	1.177967
p_ver_year	1.201177
t_anual_year	2.873489

Modelos

- Transformo algunas variables
- Hago selección de modelos usando BIC:

potential variables: den_sr ~ FR_MATDE+TP_SU_NO+TP_RSH_V+HIDRO_ITH+elev+TP_ES_OE+DS_ARBOL+p

TASK: Genetic algorithm in the candidate set.

Initialization...

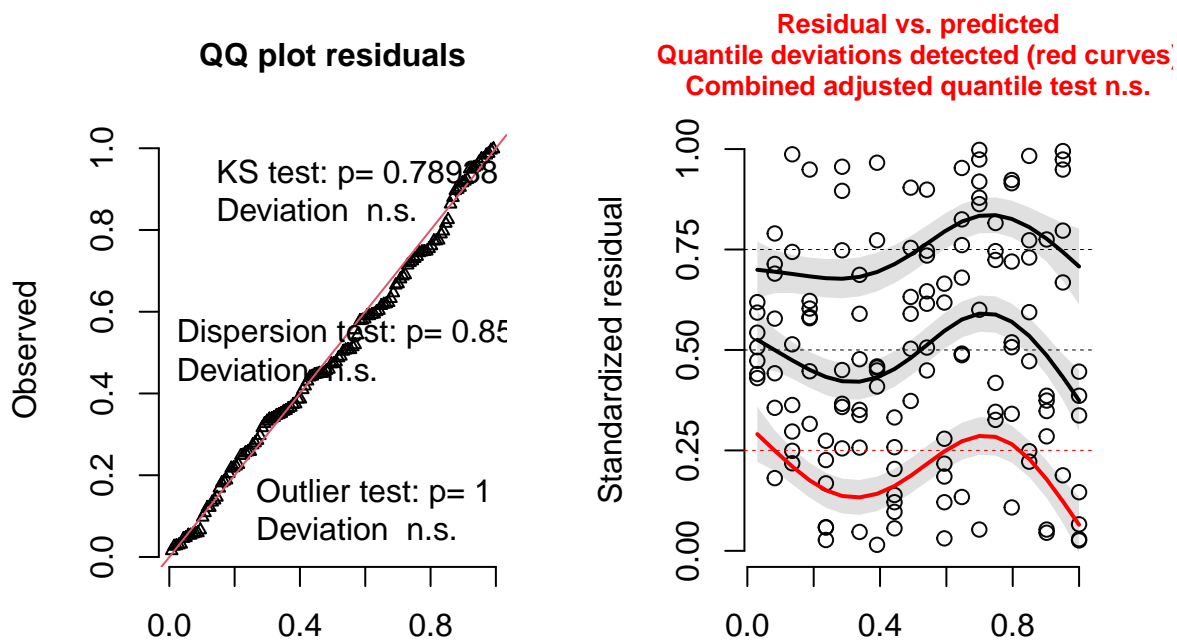
Algorithm started...

Improvements in best and average IC have been below the specified goals.

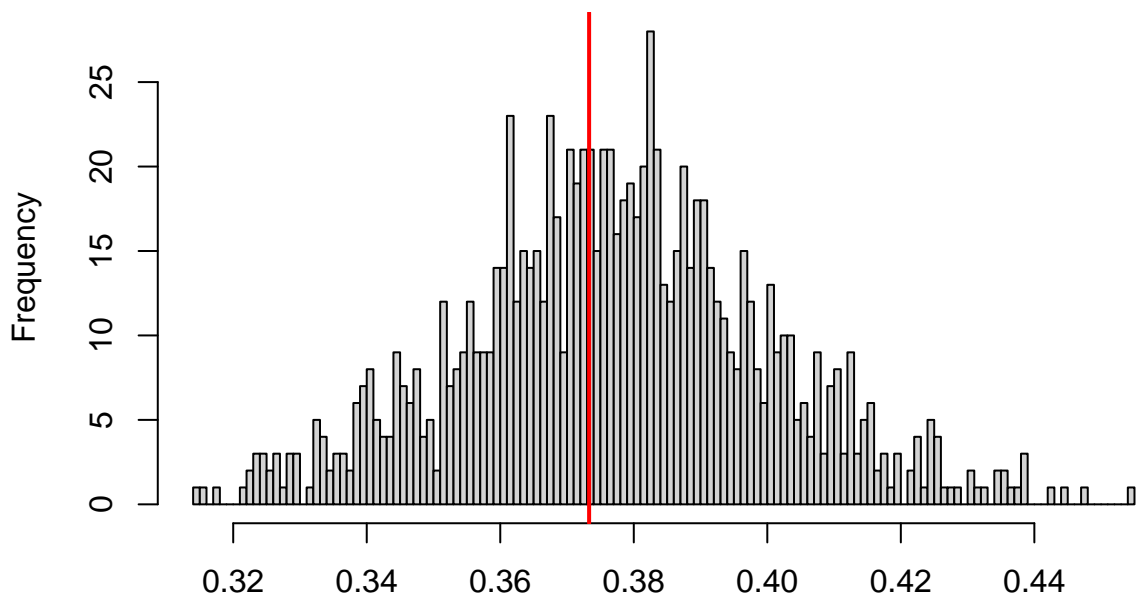
Algorithm is declared to have converged.

Completed.

DHARMA residual diagnostics



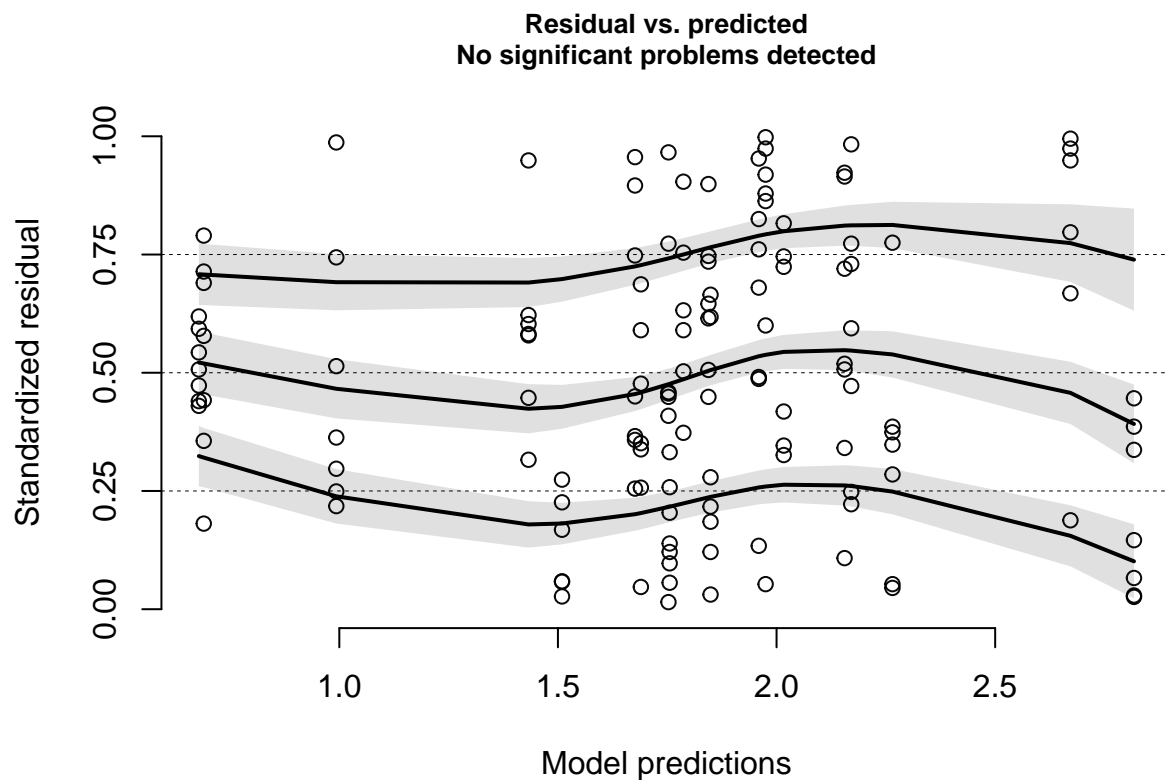
Model predictions (rank transformed)
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p -value (two.sided) = 0.856

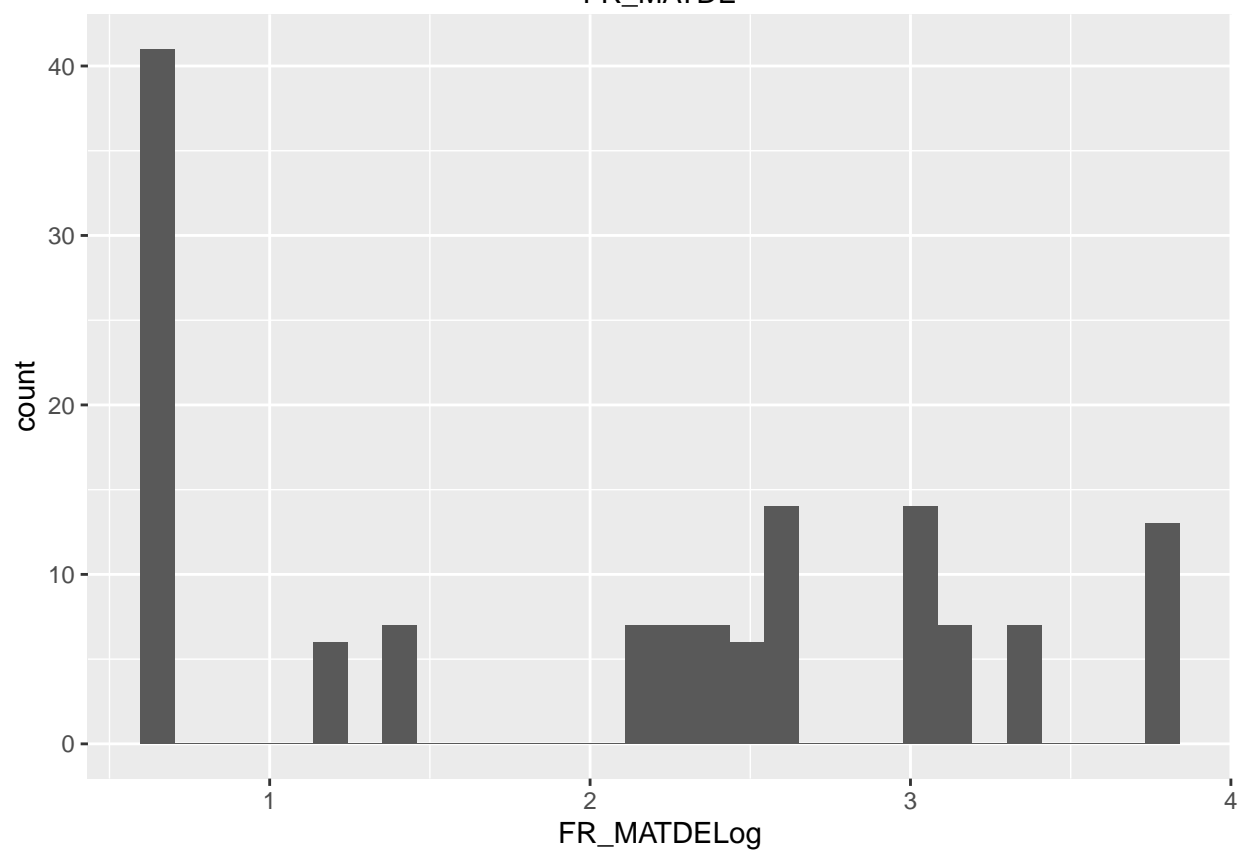
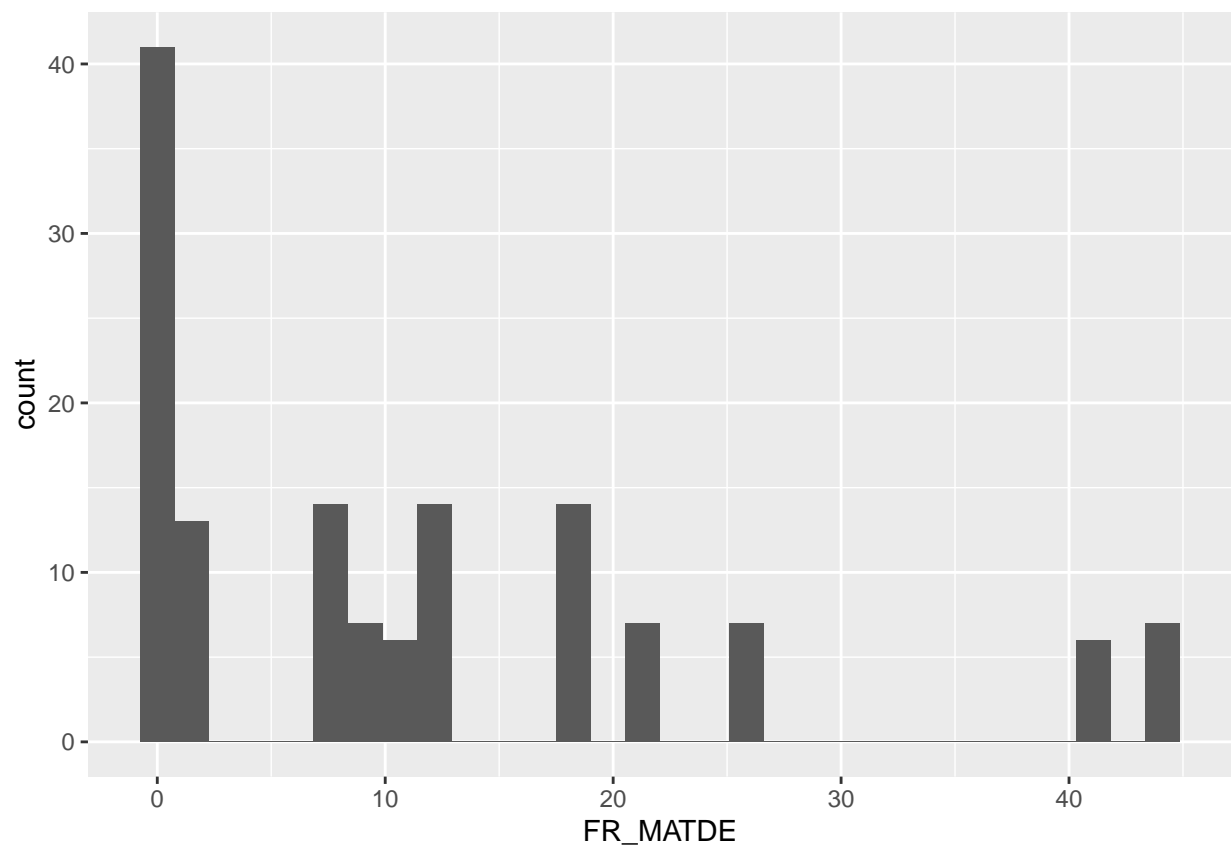
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

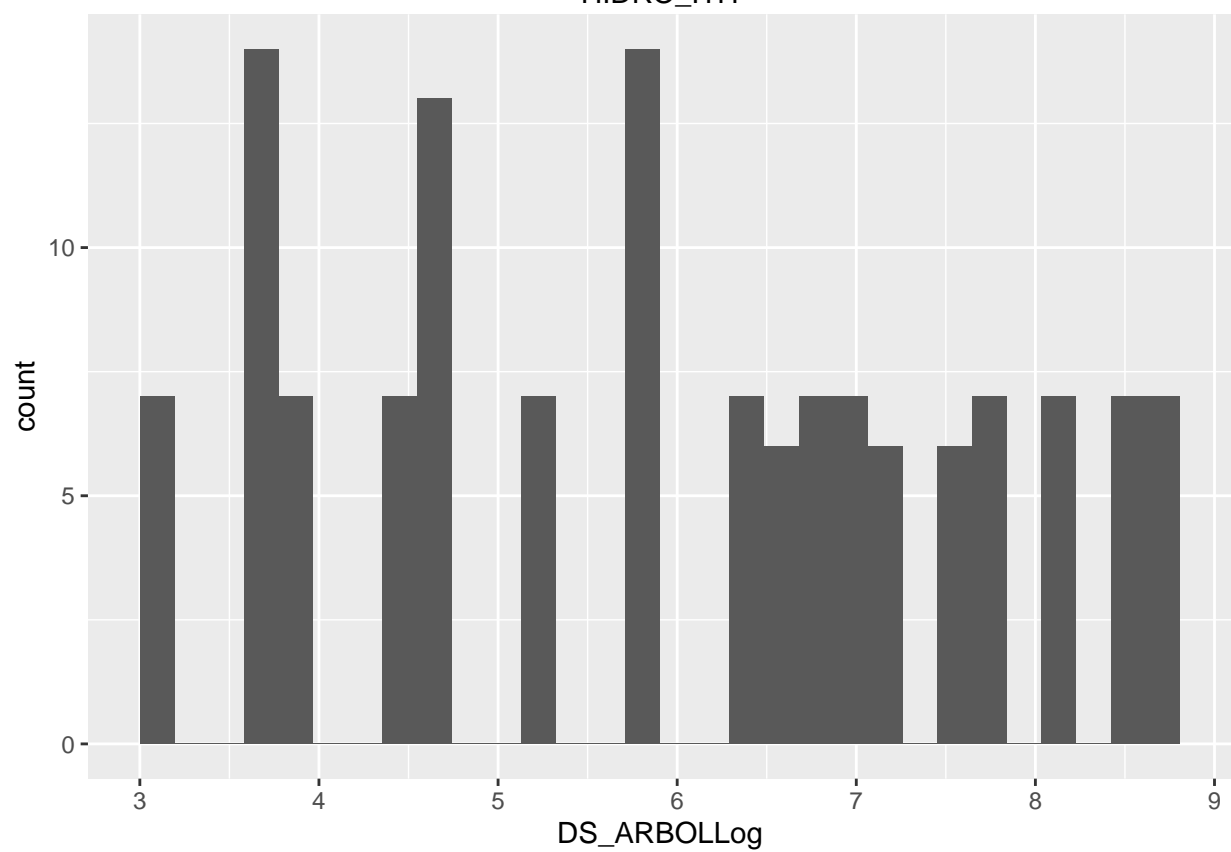
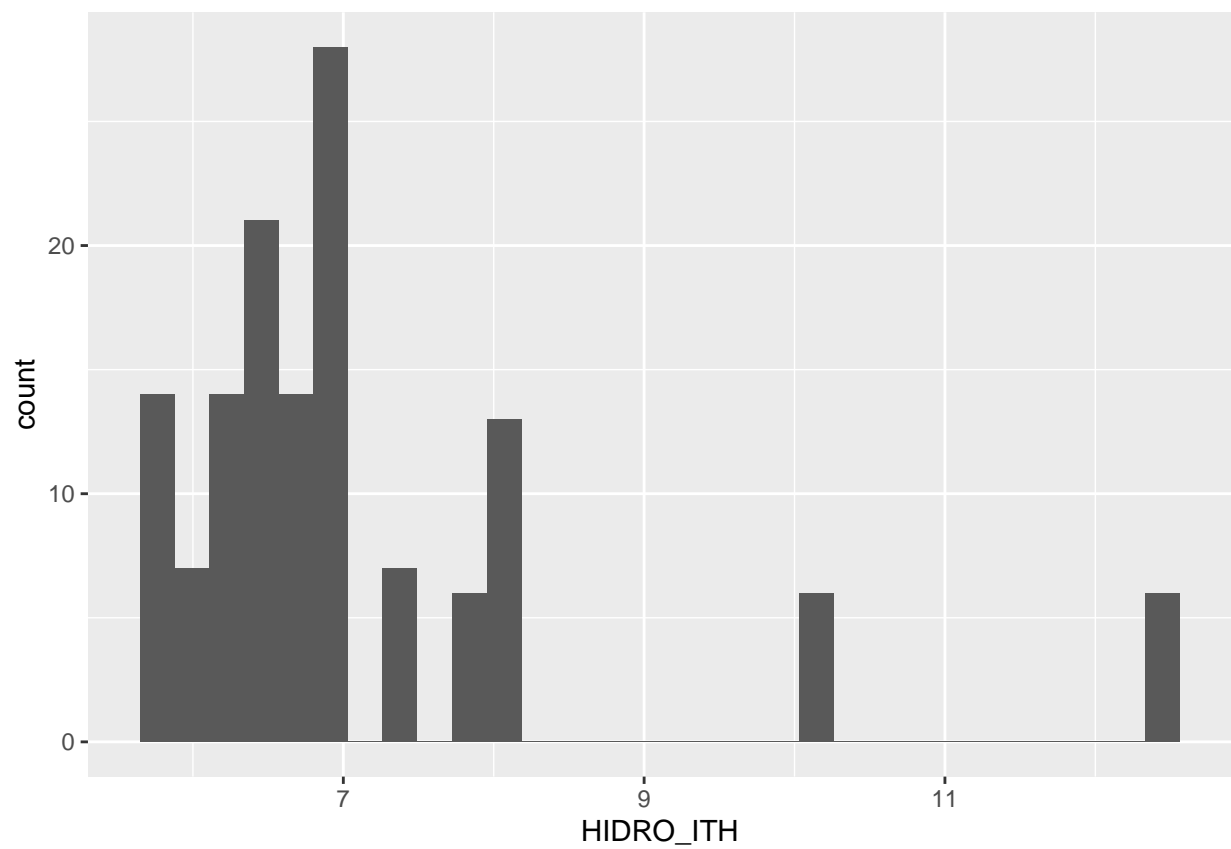
```
data: simulationOutput
ratioObsSim = 0.98975, p-value = 0.856
alternative hypothesis: two.sided
```



Test for location of quantiles via qgam

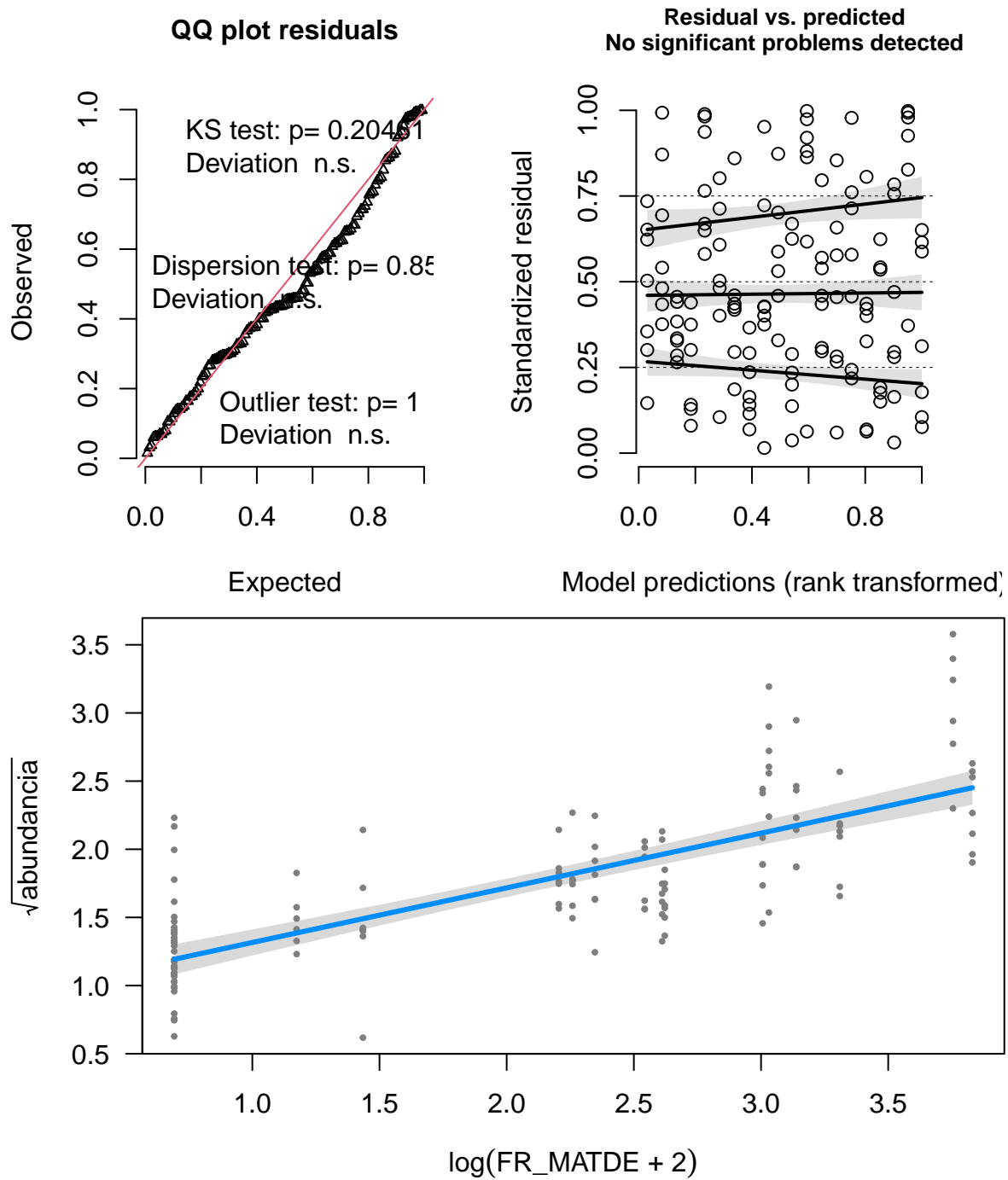
```
data: simulationOutput
p-value = 0.6578
alternative hypothesis: both
```

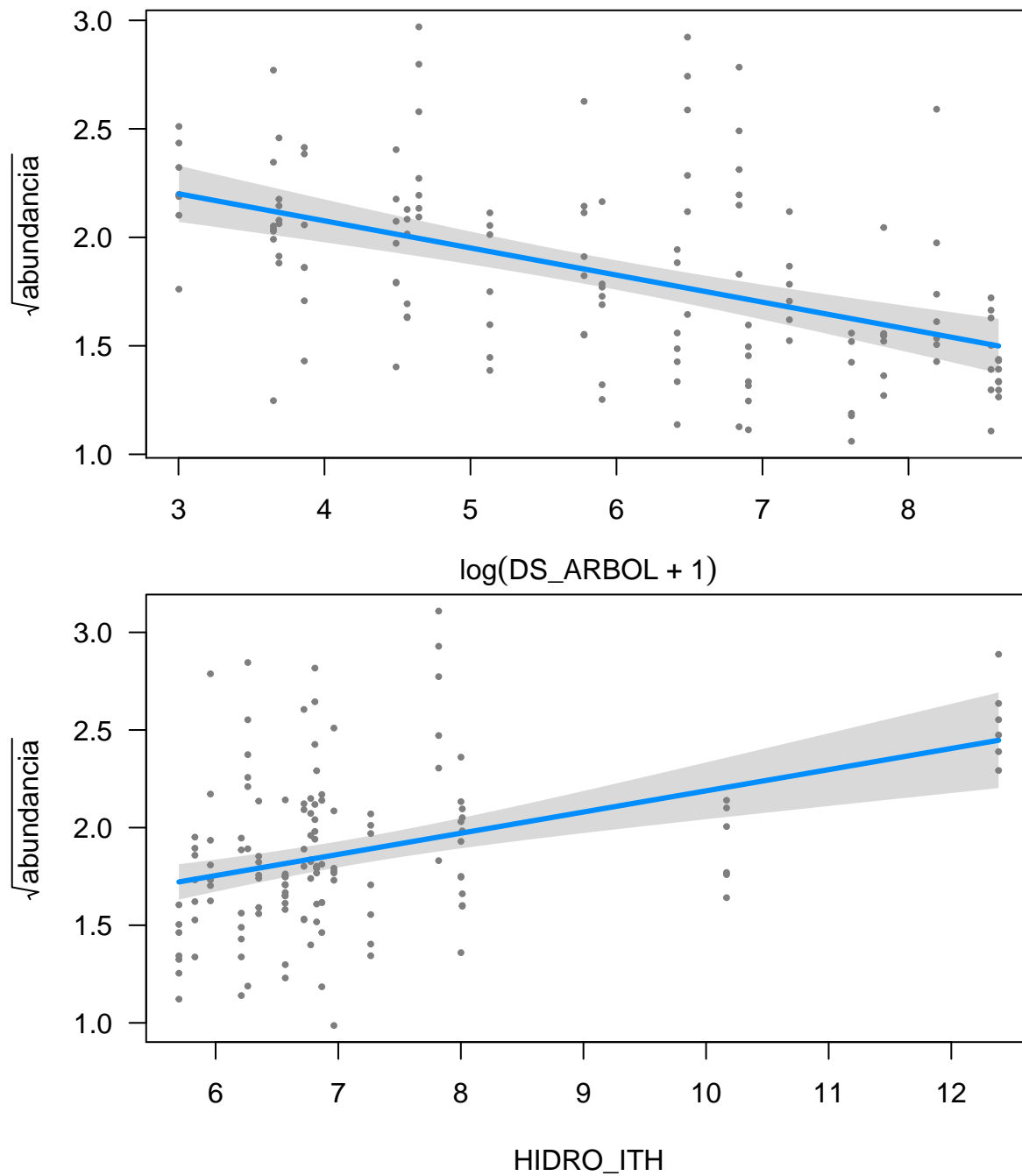




Trasformar datos

DHARMA residual diagnostics





Interacción??

```
TASK: Genetic algorithm in the candidate set.
Initialization...
Algorithm started...
Improvements in best and average IC have been below the specified goals.
Algorithm is declared to have converged.
Completed.
```

Call:

```
glm(formula = s@formulas[[1]], family = fam, data = m)
```

Deviance Residuals:

Min	1Q	Median	3Q	Max
-0.86513	-0.22400	-0.03751	0.16747	1.12929

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)	
(Intercept)	8.06335	2.24831	3.586	0.000474	***
FR_MATDELog	-1.47842	0.35897	-4.119	6.77e-05	***
HIDRO_ITH	-0.85067	0.33024	-2.576	0.011125	*
DS_ARBOLLog	-0.86956	0.26626	-3.266	0.001398	**
FR_MATDELog:HIDRO_ITH	0.21208	0.04738	4.476	1.65e-05	***
FR_MATDELog:DS_ARBOLLog	0.06745	0.02120	3.181	0.001838	**
HIDRO_ITH:DS_ARBOLLog	0.09711	0.03962	2.451	0.015593	*

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for gaussian family taken to be 0.1241278)

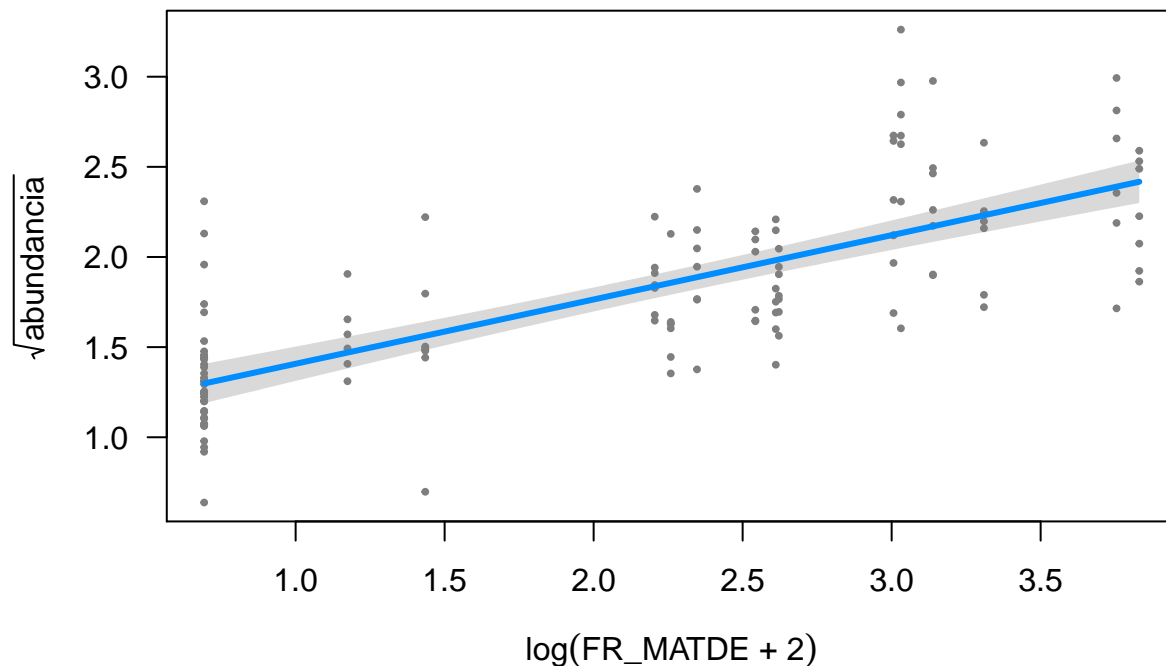
Null deviance: 58.283 on 135 degrees of freedom
Residual deviance: 16.012 on 129 degrees of freedom
AIC: 111.01

Number of Fisher Scoring iterations: 2

Conditions used in construction of plot

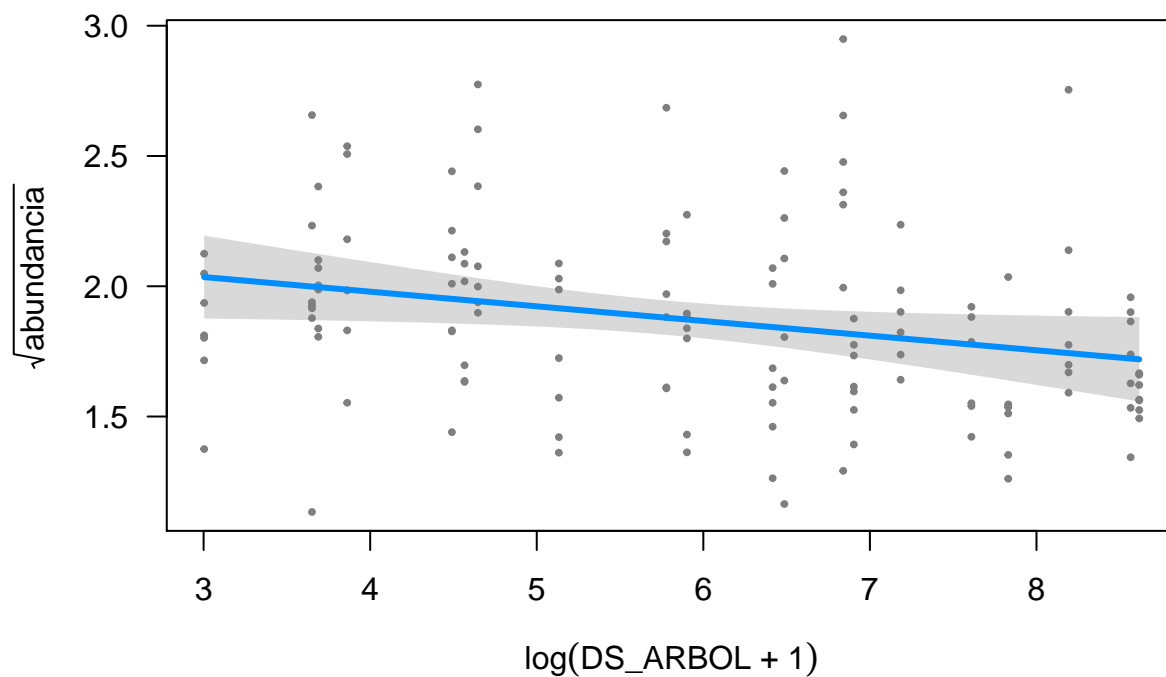
HIDRO_ITH: 6.775455

DS_ARBOLLog: 5.901787

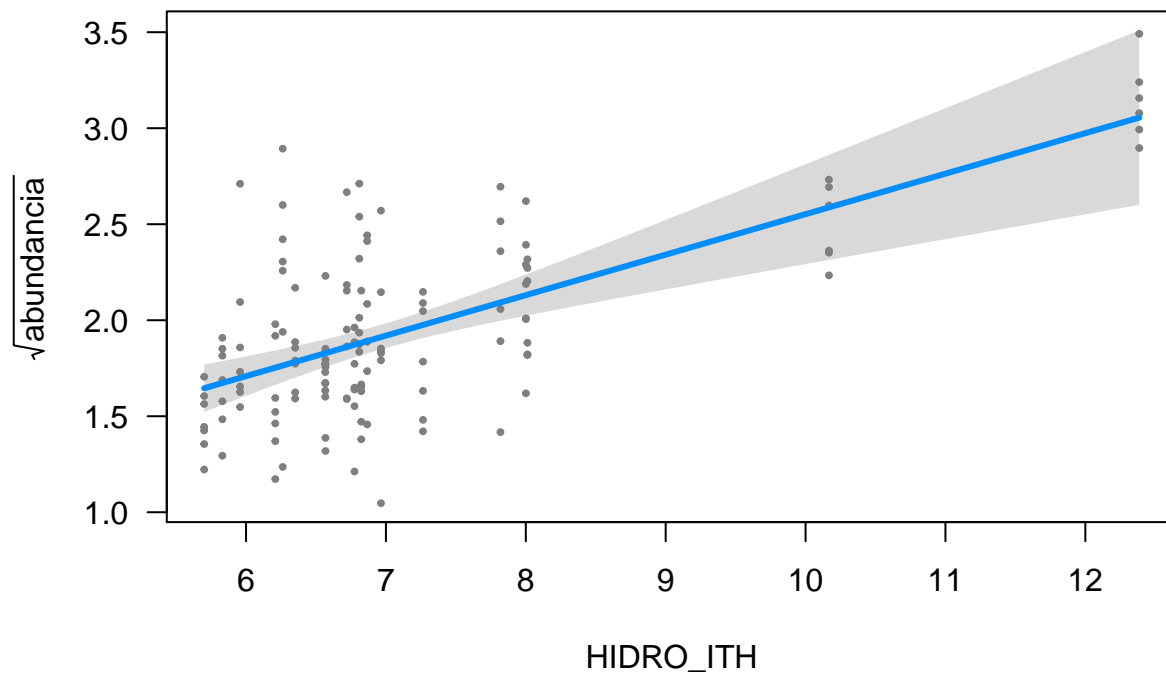


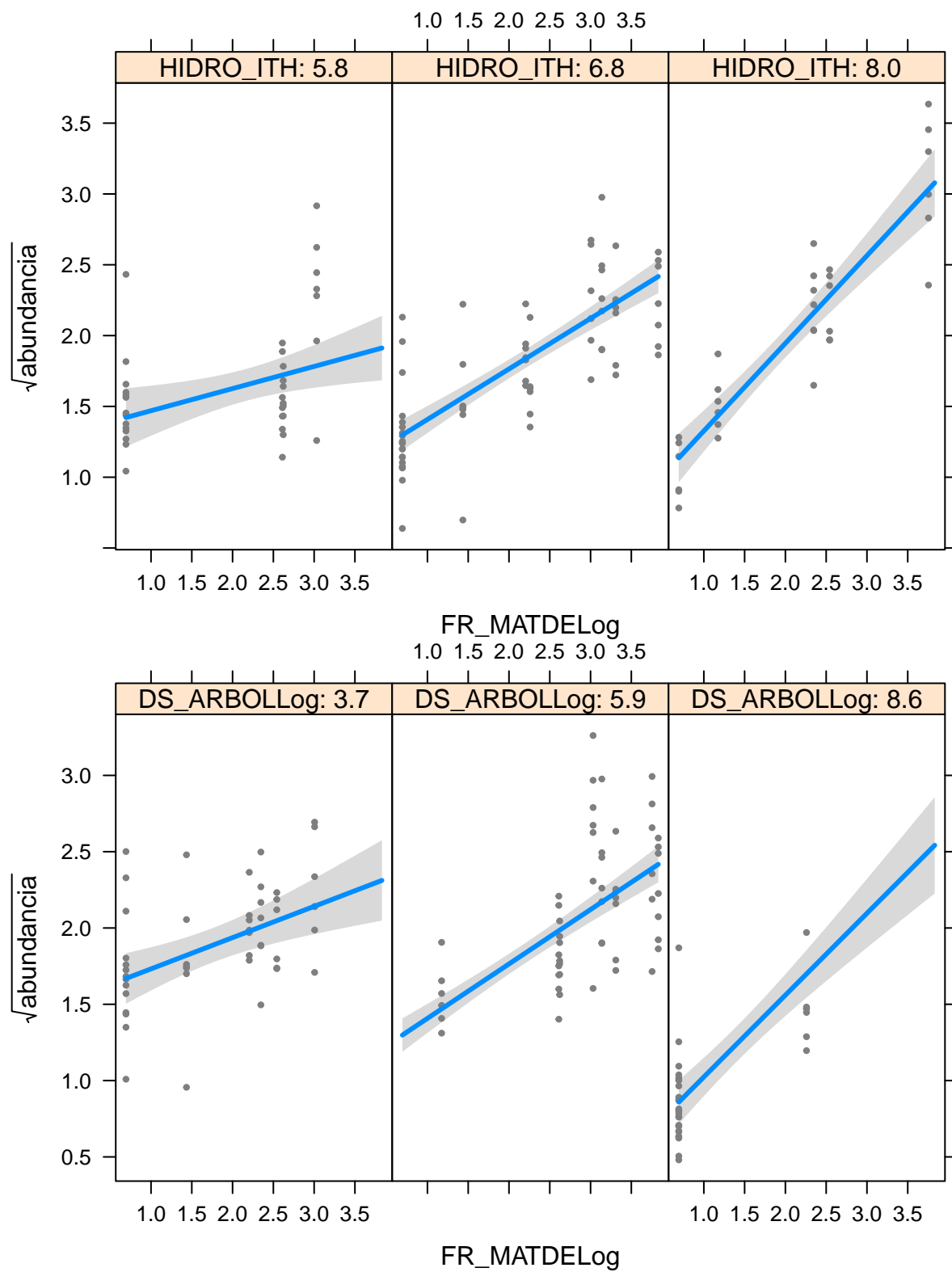
Conditions used in construction of plot

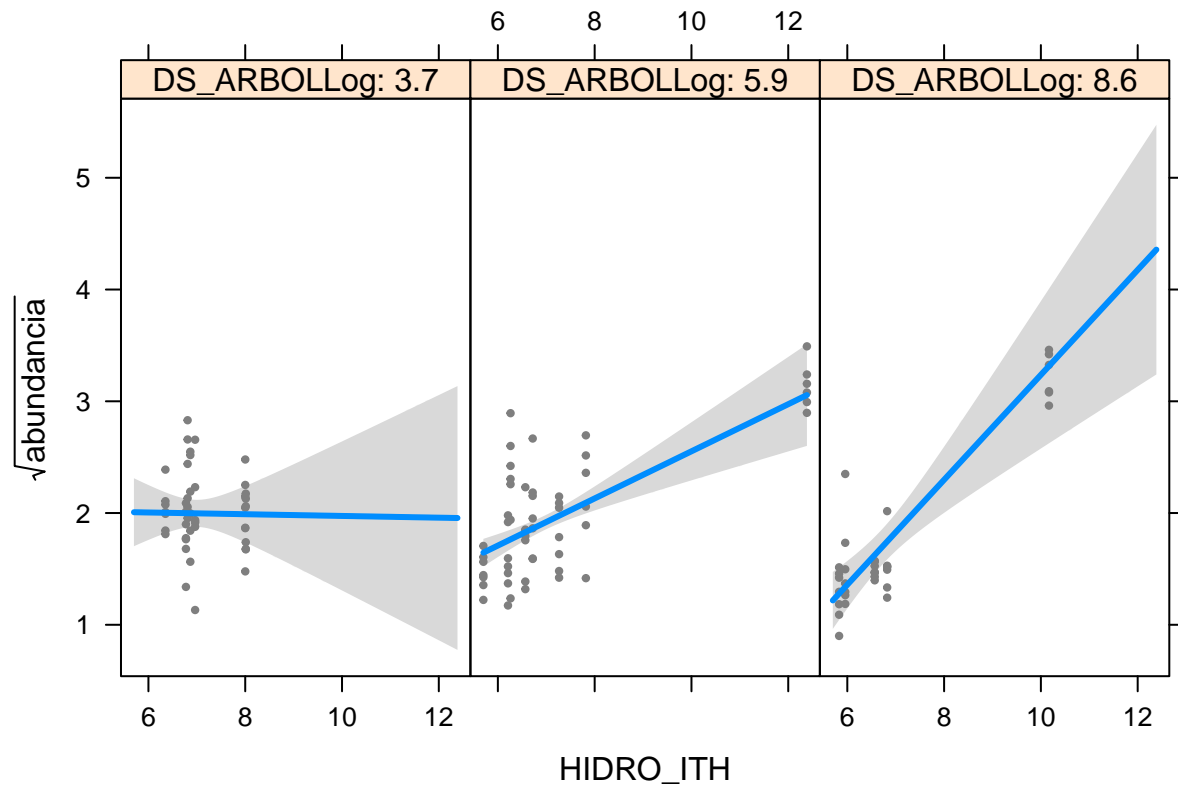
FR_MATDELog: 2.30291
HIDRO_ITH: 6.775455



Conditions used in construction of plot
FR_MATDELog: 2.30291
DS_ARBOLLog: 5.901787



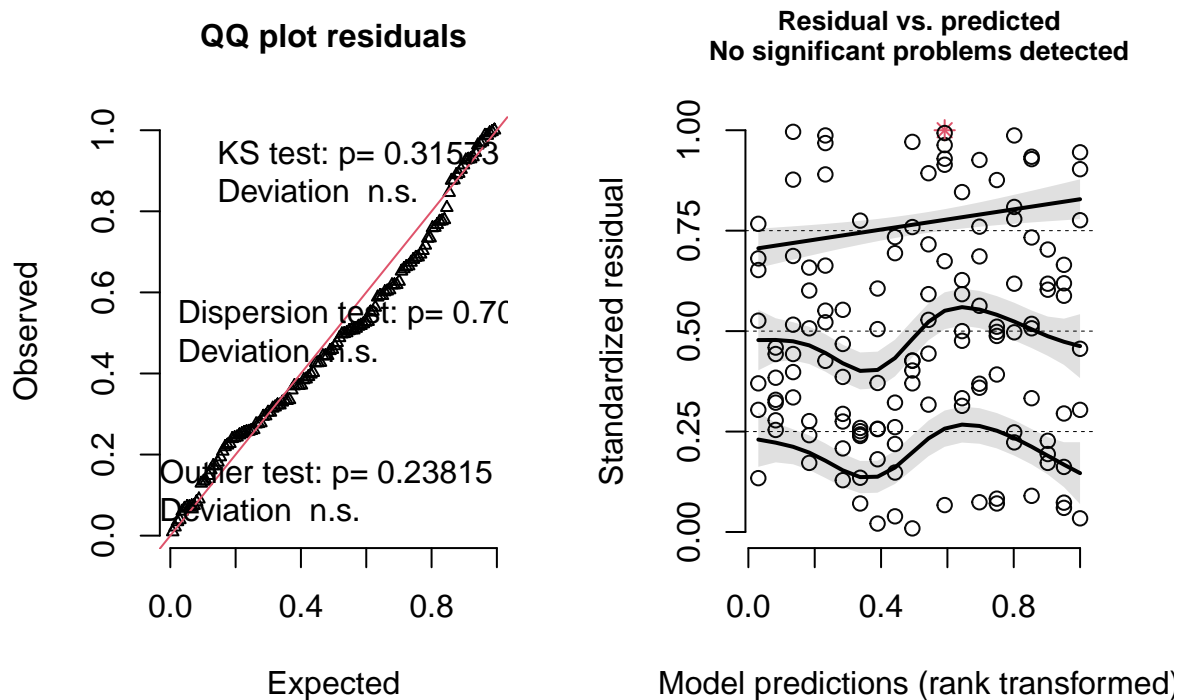




VAS por aqui

numeric(0)

DHARMA residual diagnostics



Selección de variables

old selection - FR_CONIF - Pp_ver - TP_RSD_P - TP_ES_OE - FR_PASTO - elevation - t_anual -
HIDRO_ICT - TP_PEND - Pp_anu - FR_QUERC - FR_MATDE - FR_MATDI

Unir div_mean y den_mean y generar un dataframe para modelizar