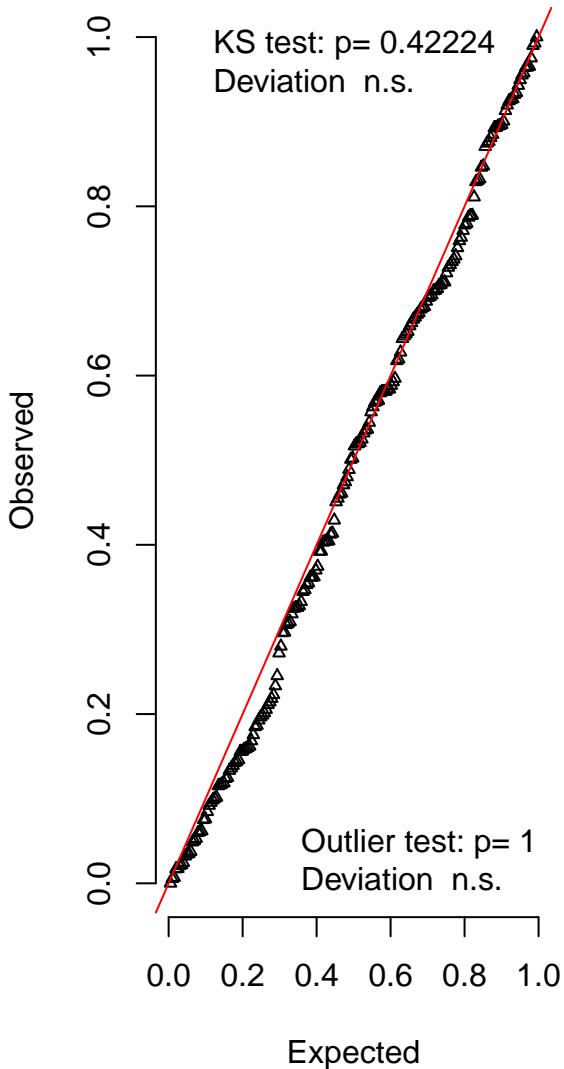
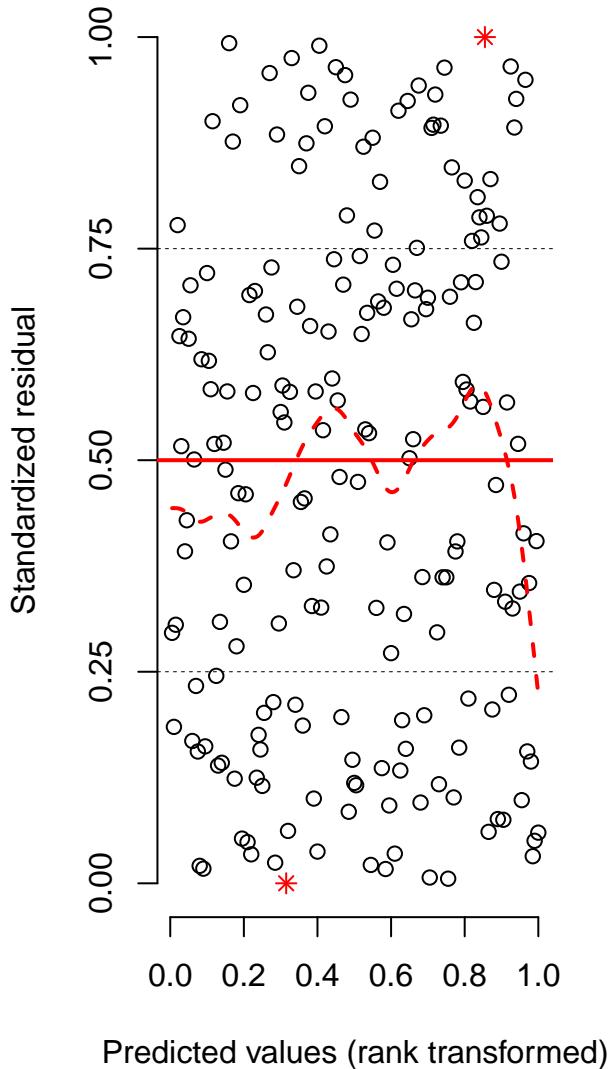


DHARMA scaled residual plots

QQ plot residuals

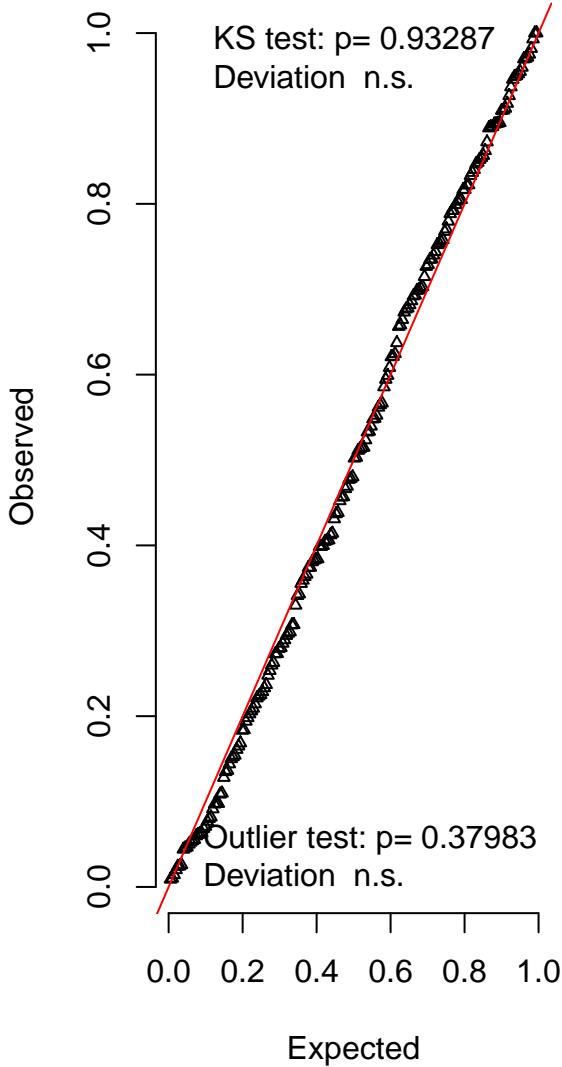


Residual vs. predicted lines should match

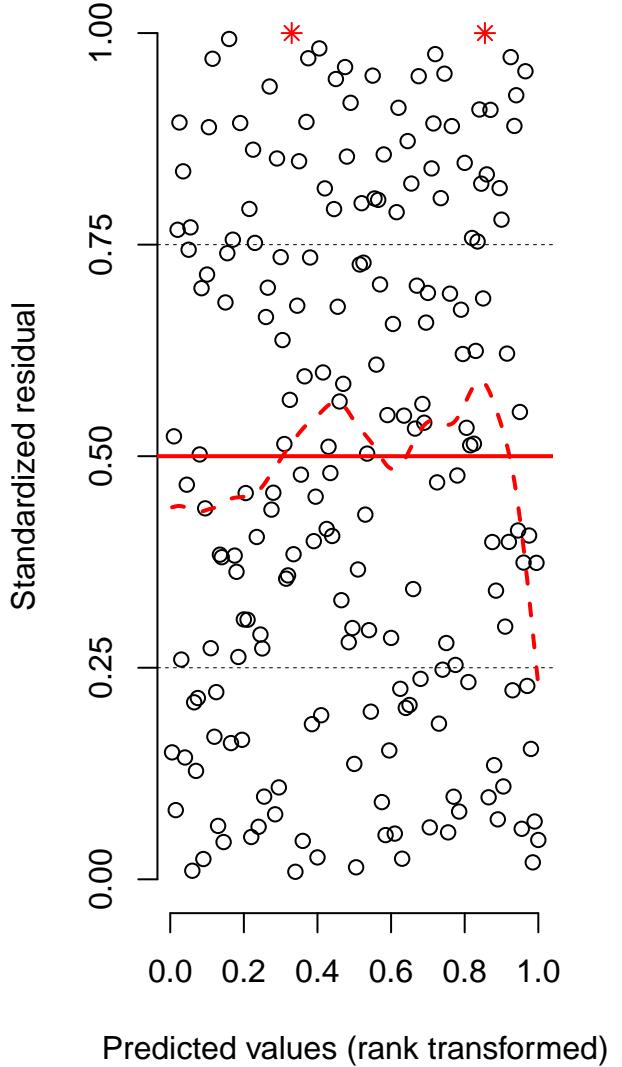


DHARMA scaled residual plots

QQ plot residuals

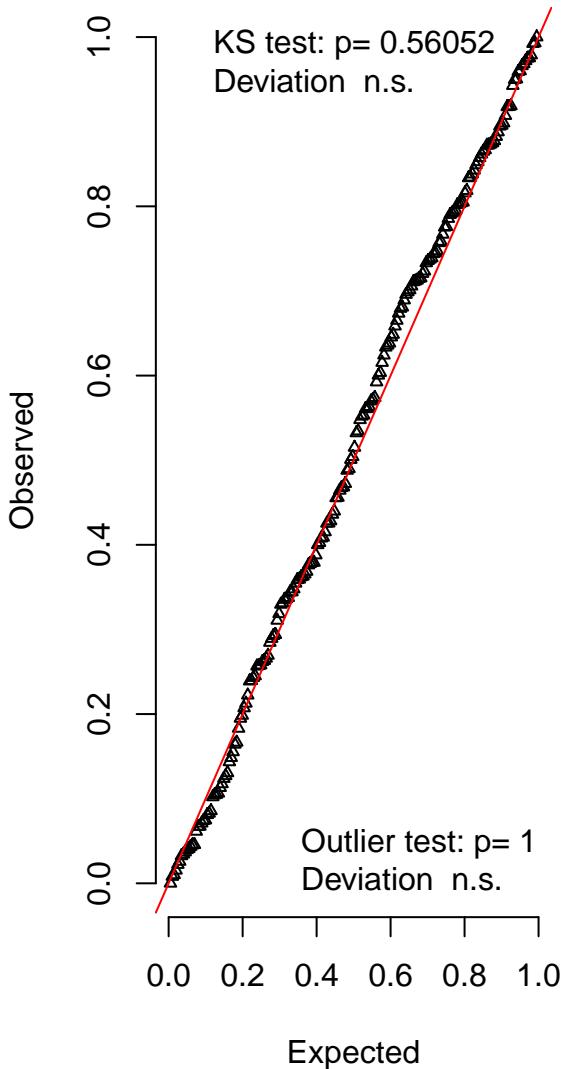


Residual vs. predicted lines should match

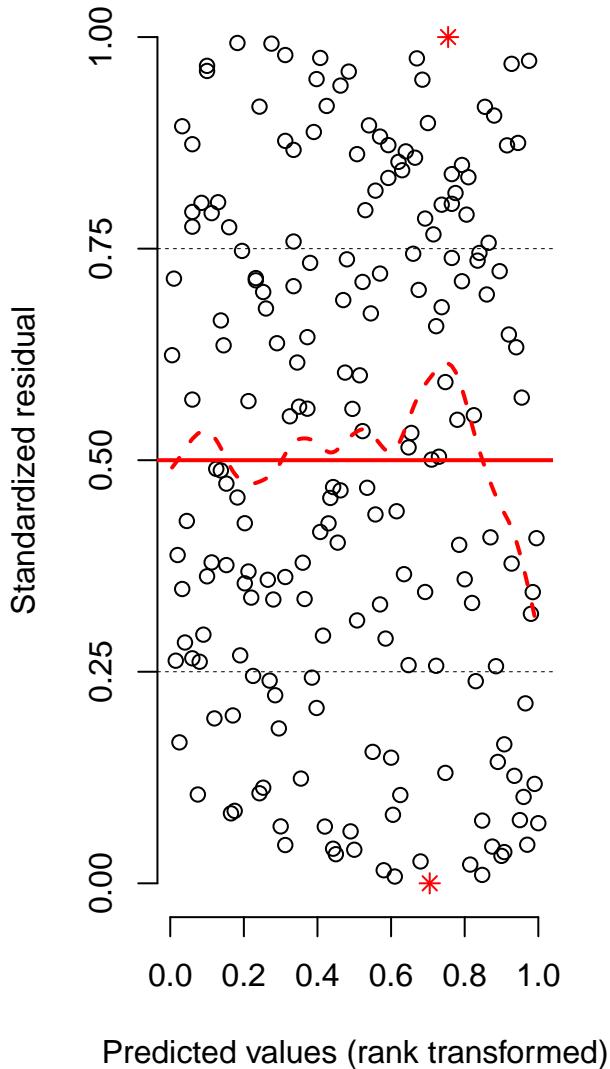


DHARMA scaled residual plots

QQ plot residuals

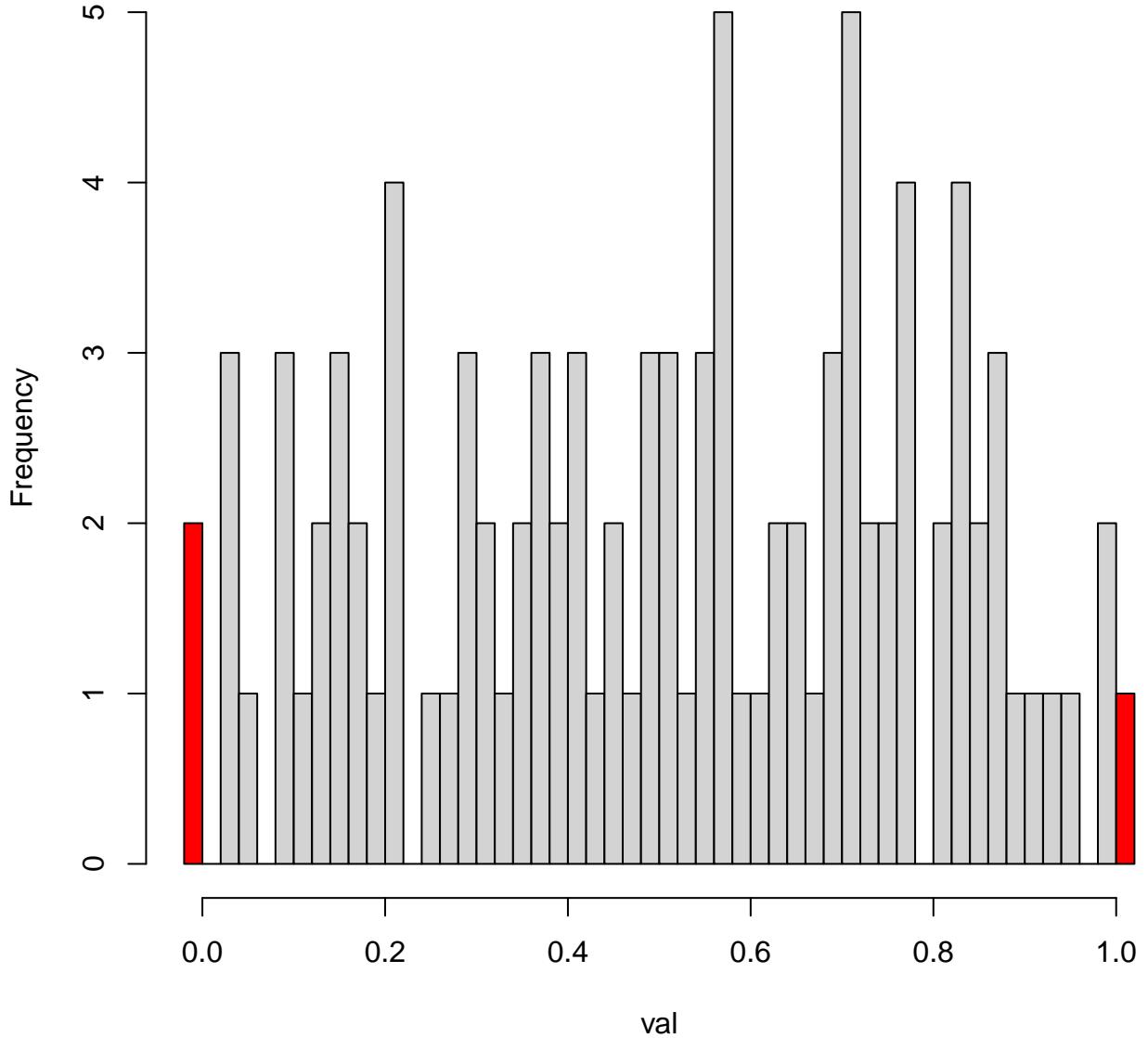


Residual vs. predicted lines should match

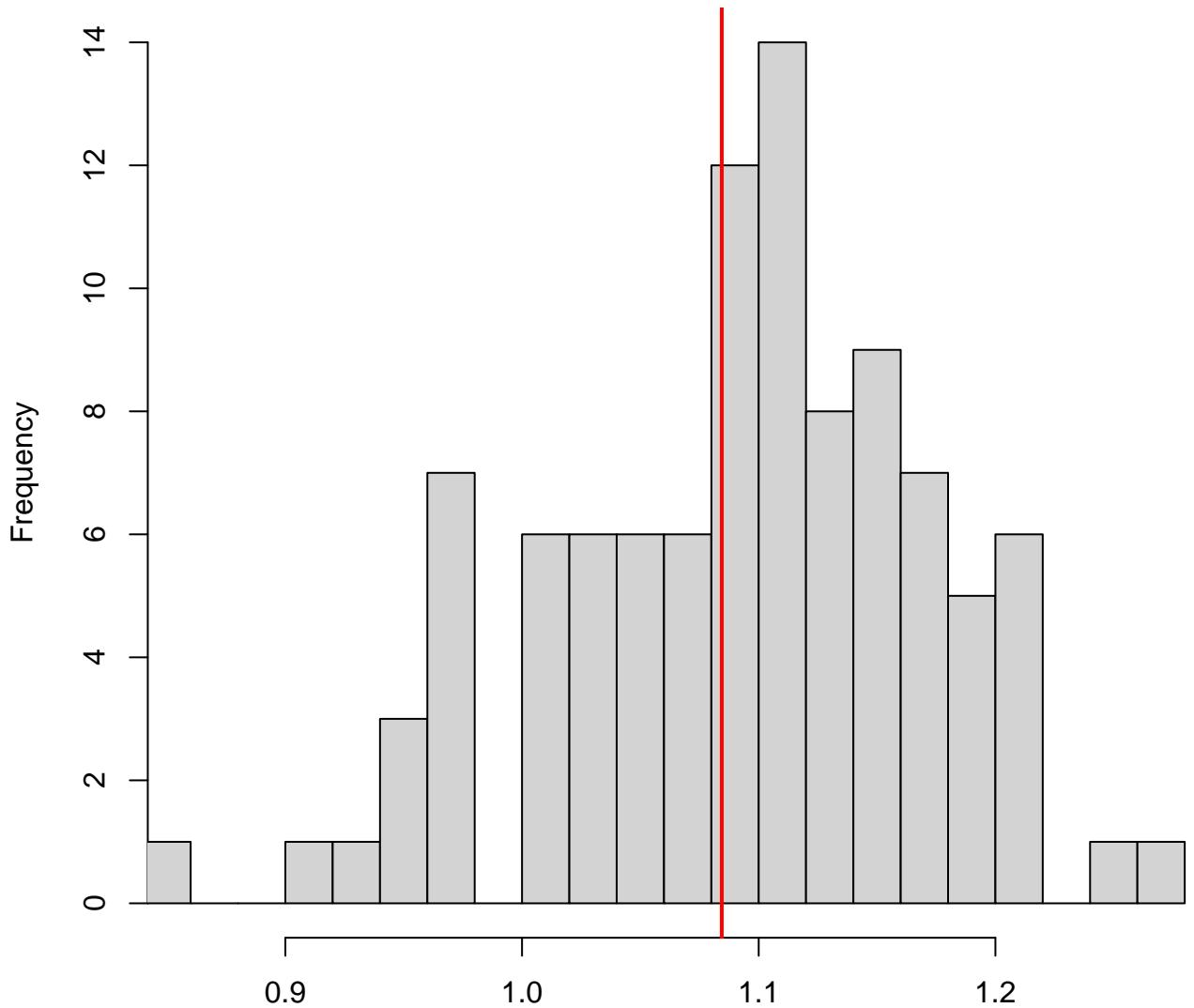


Hist of DHARMA residuals

Outliers are marked red

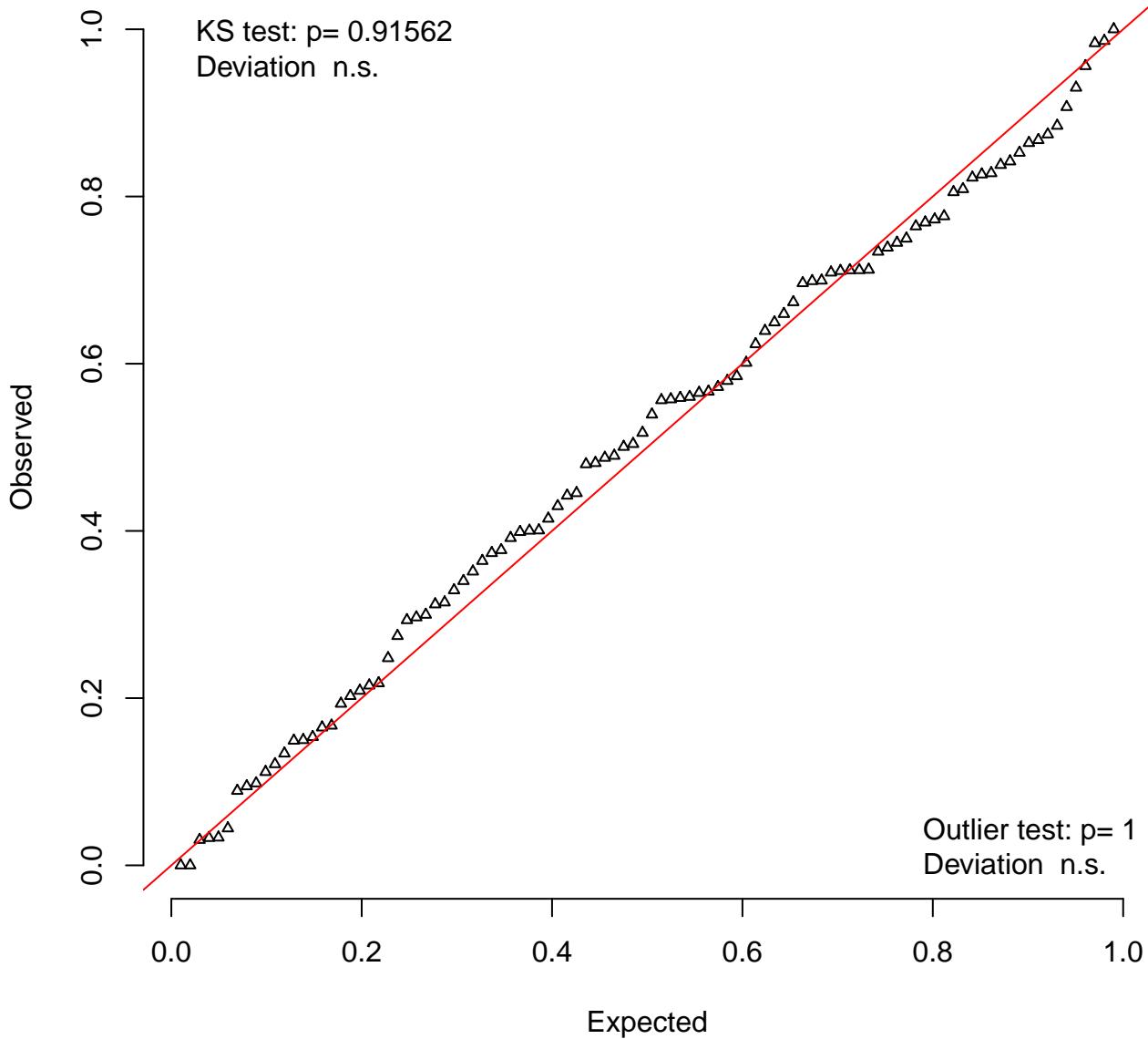


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

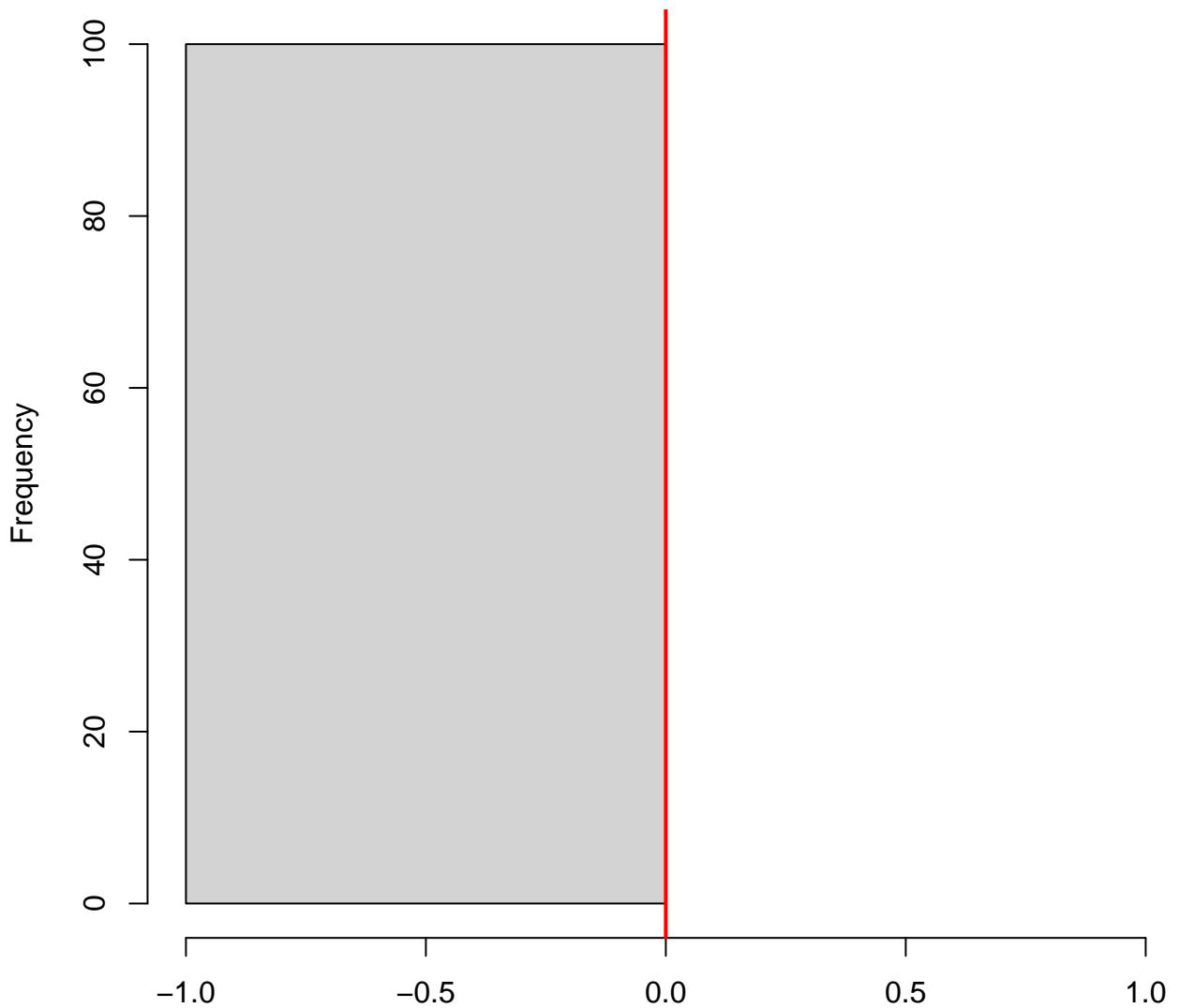


Simulated values, red line = fitted model. p-value (two.sided) = 0.82

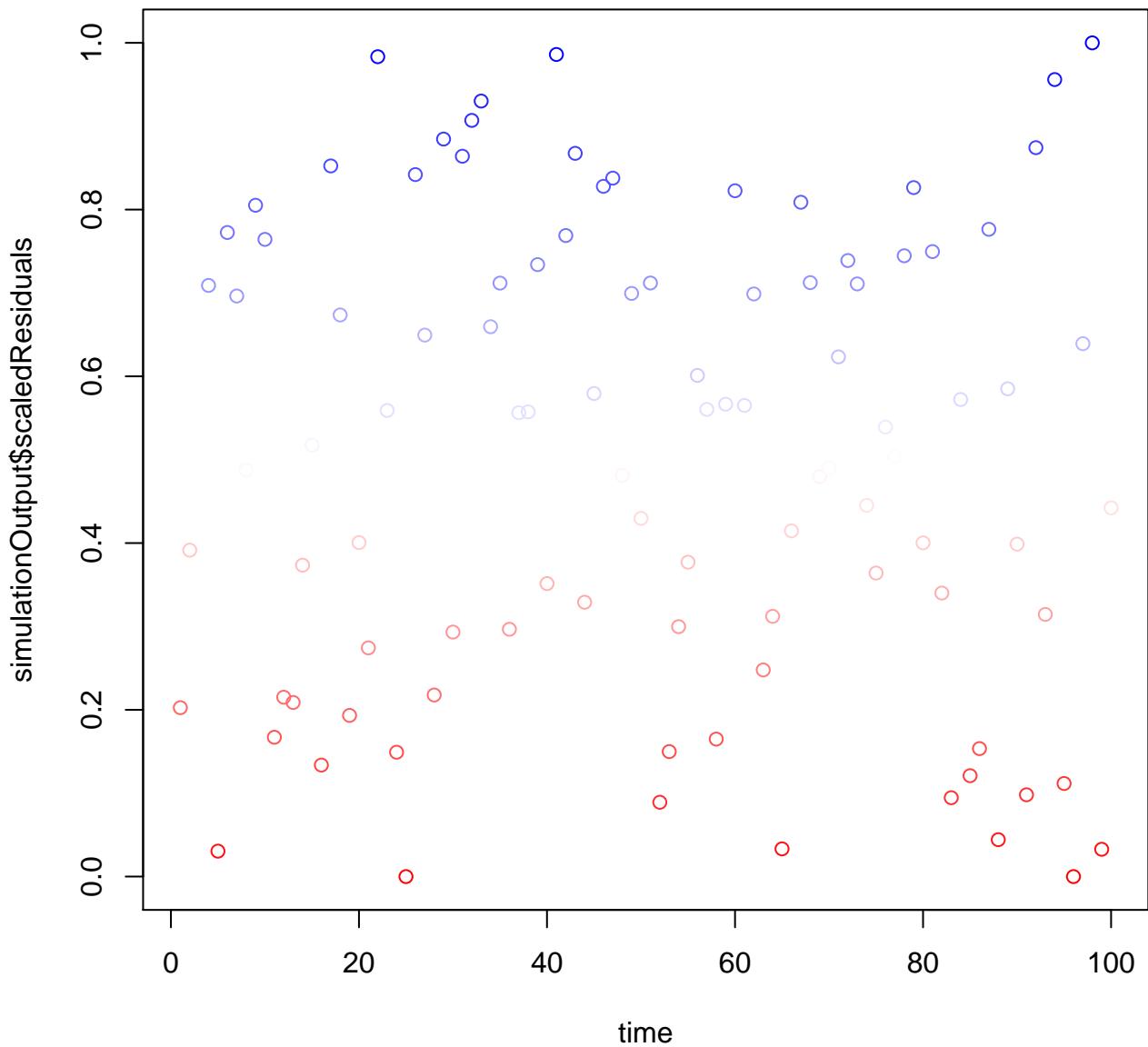
QQ plot residuals

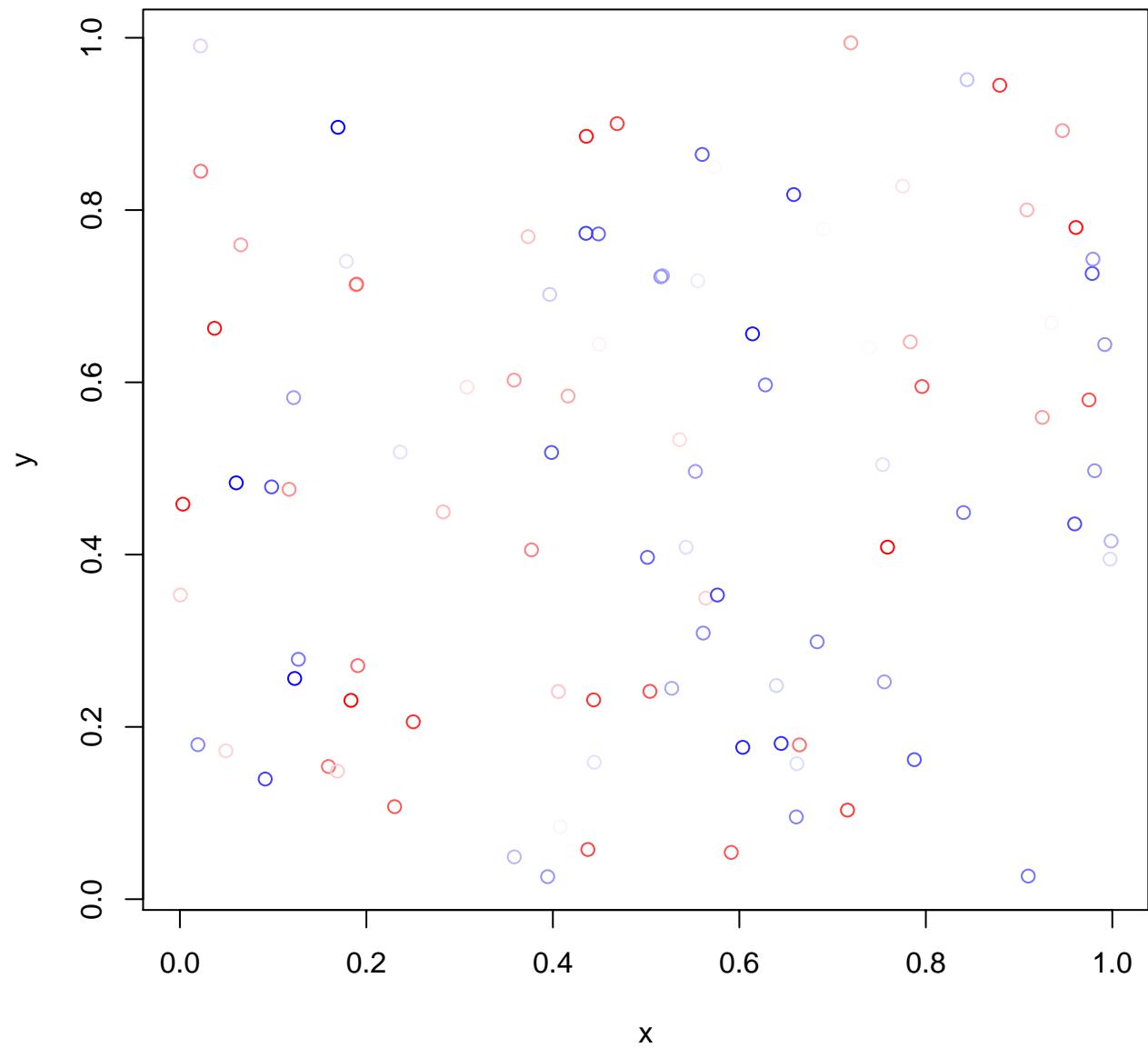


**DHARMA zero-inflation test via comparison to
expected zeros with simulation under H0 = fitted
model**

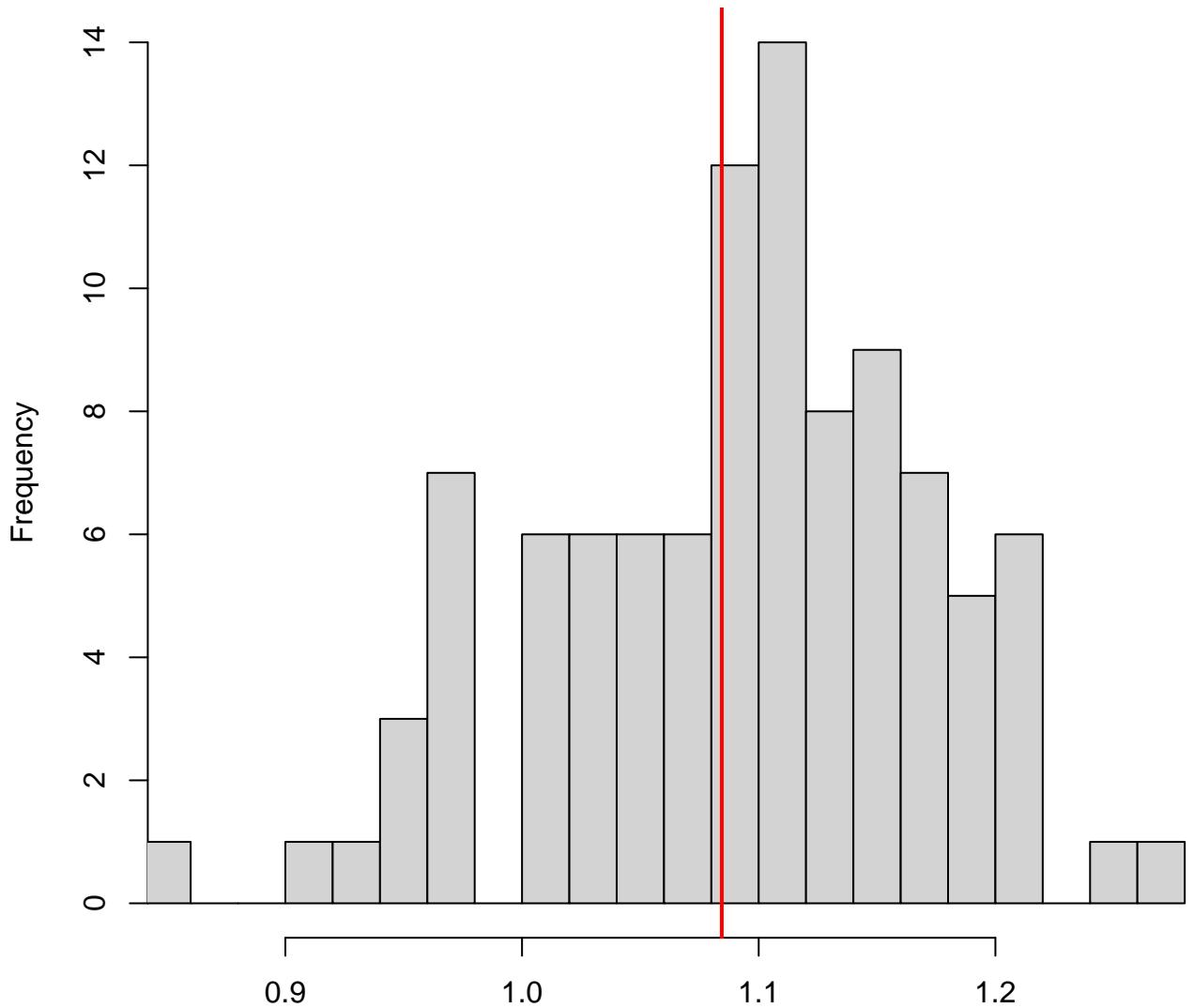


Simulated values, red line = fitted model. p-value (two.sided) = 1



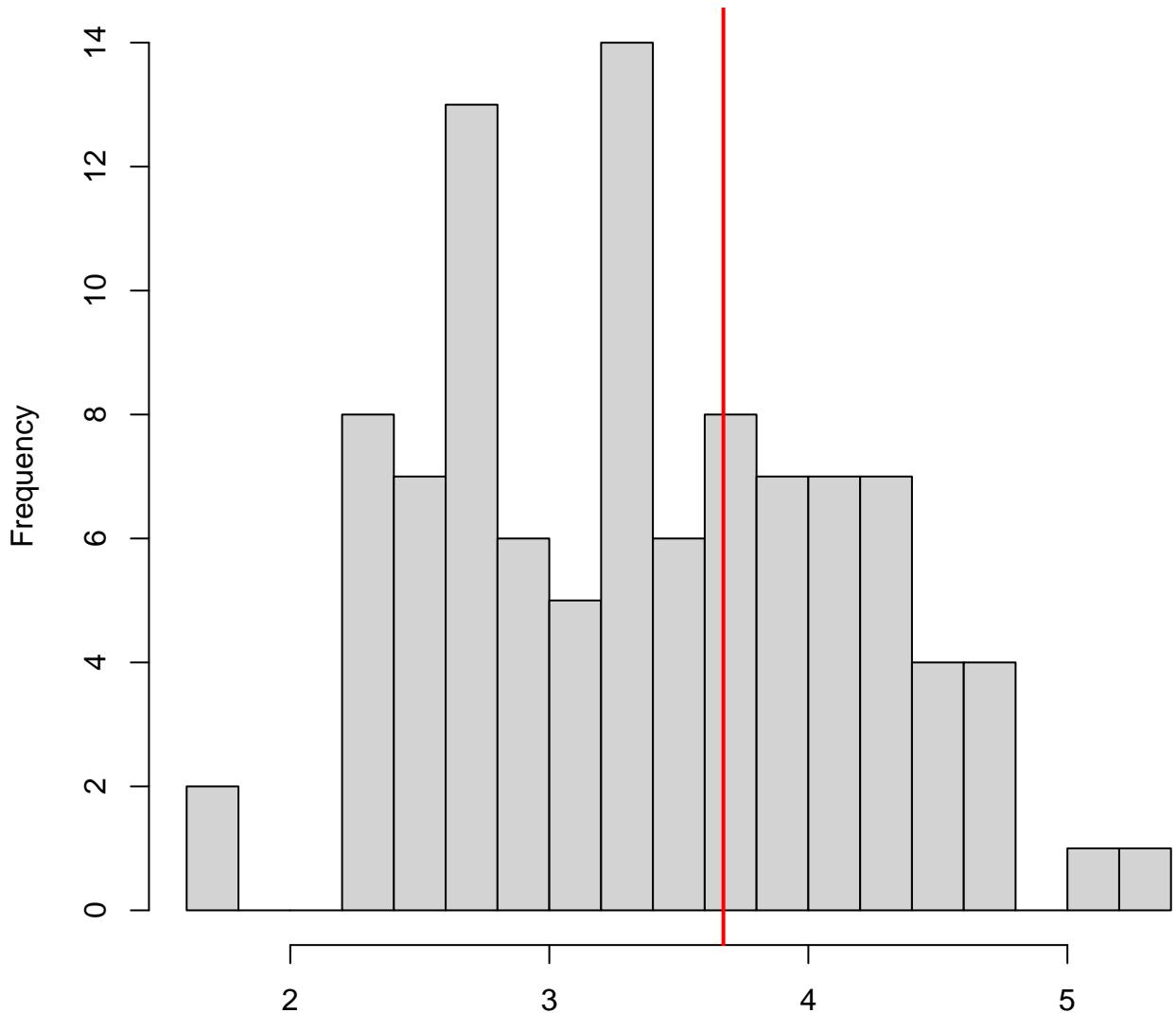


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.82

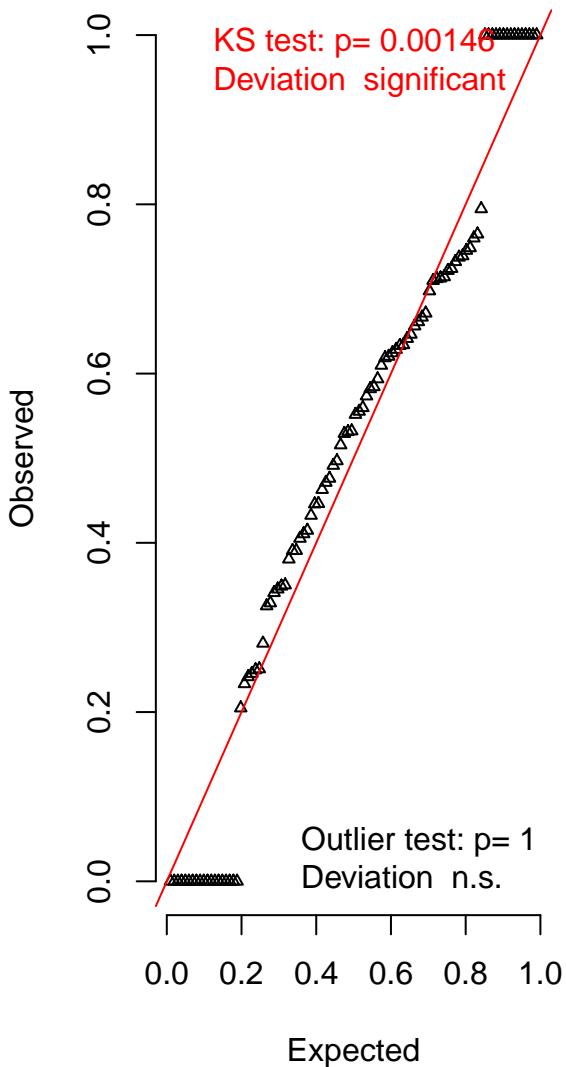
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



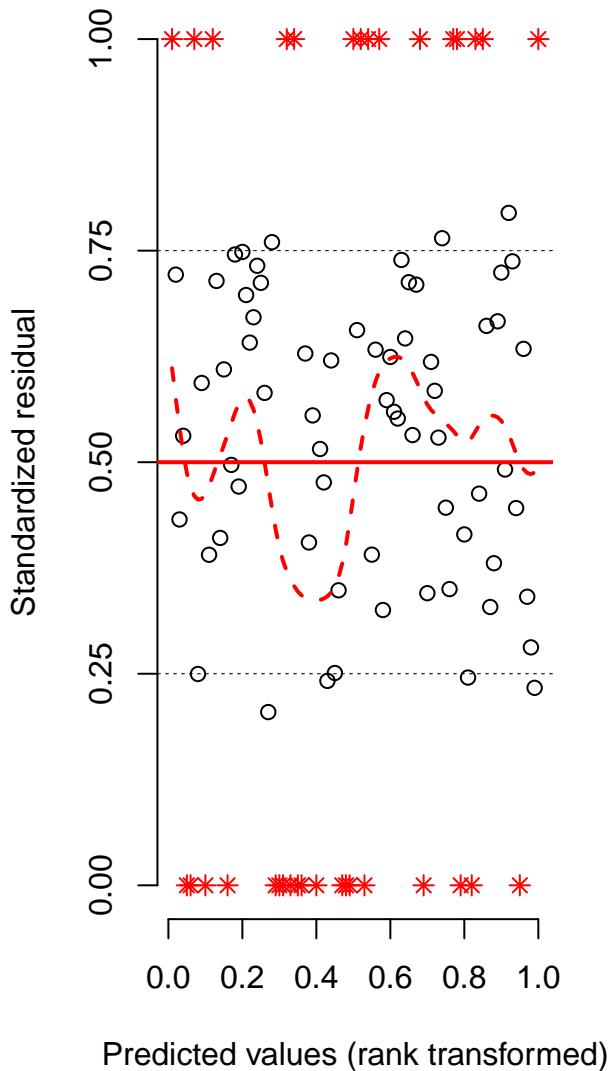
Simulated values, red line = fitted model. p-value (two.sided) = 0.74

DHARMA scaled residual plots

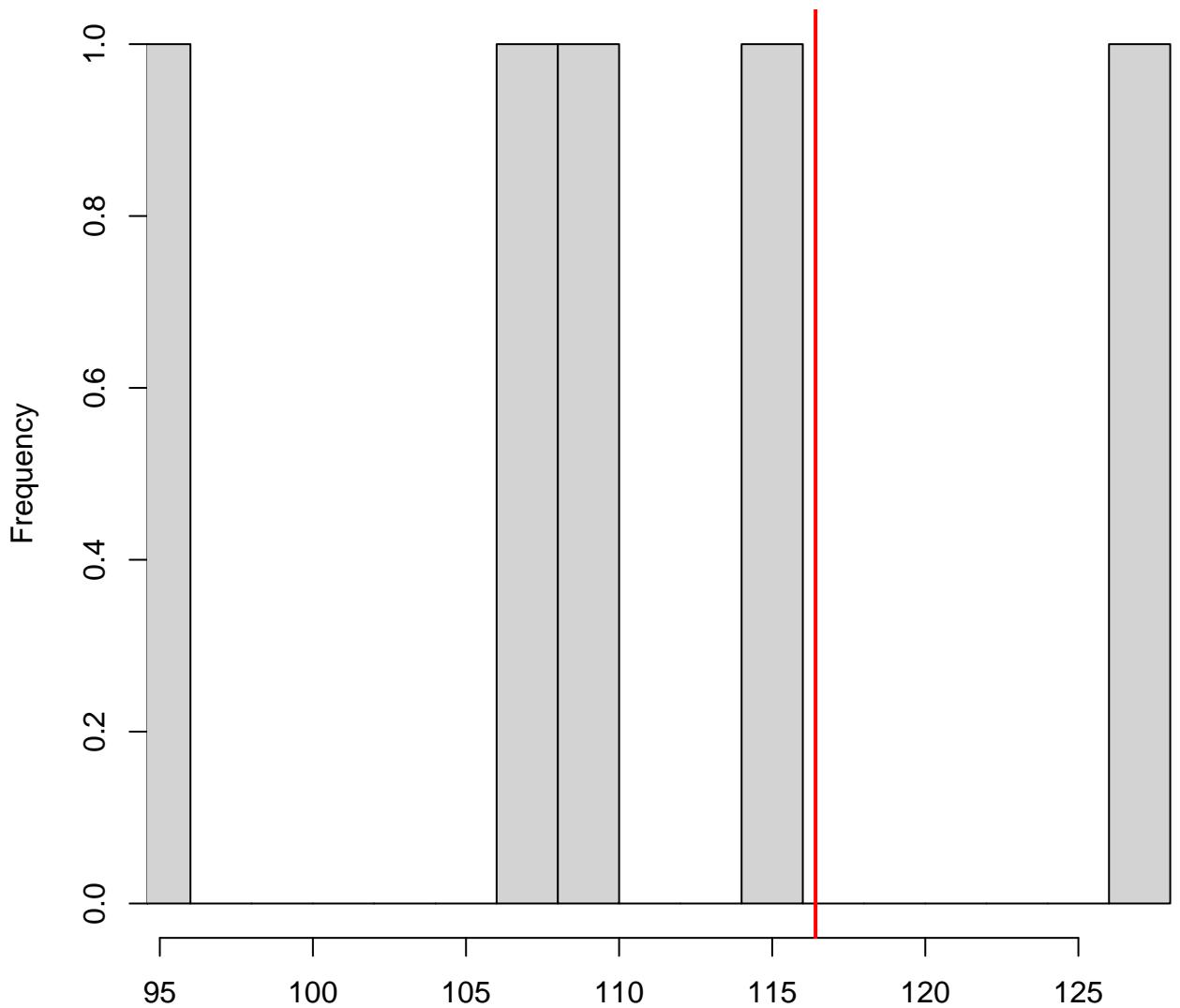
QQ plot residuals



Residual vs. predicted lines should match

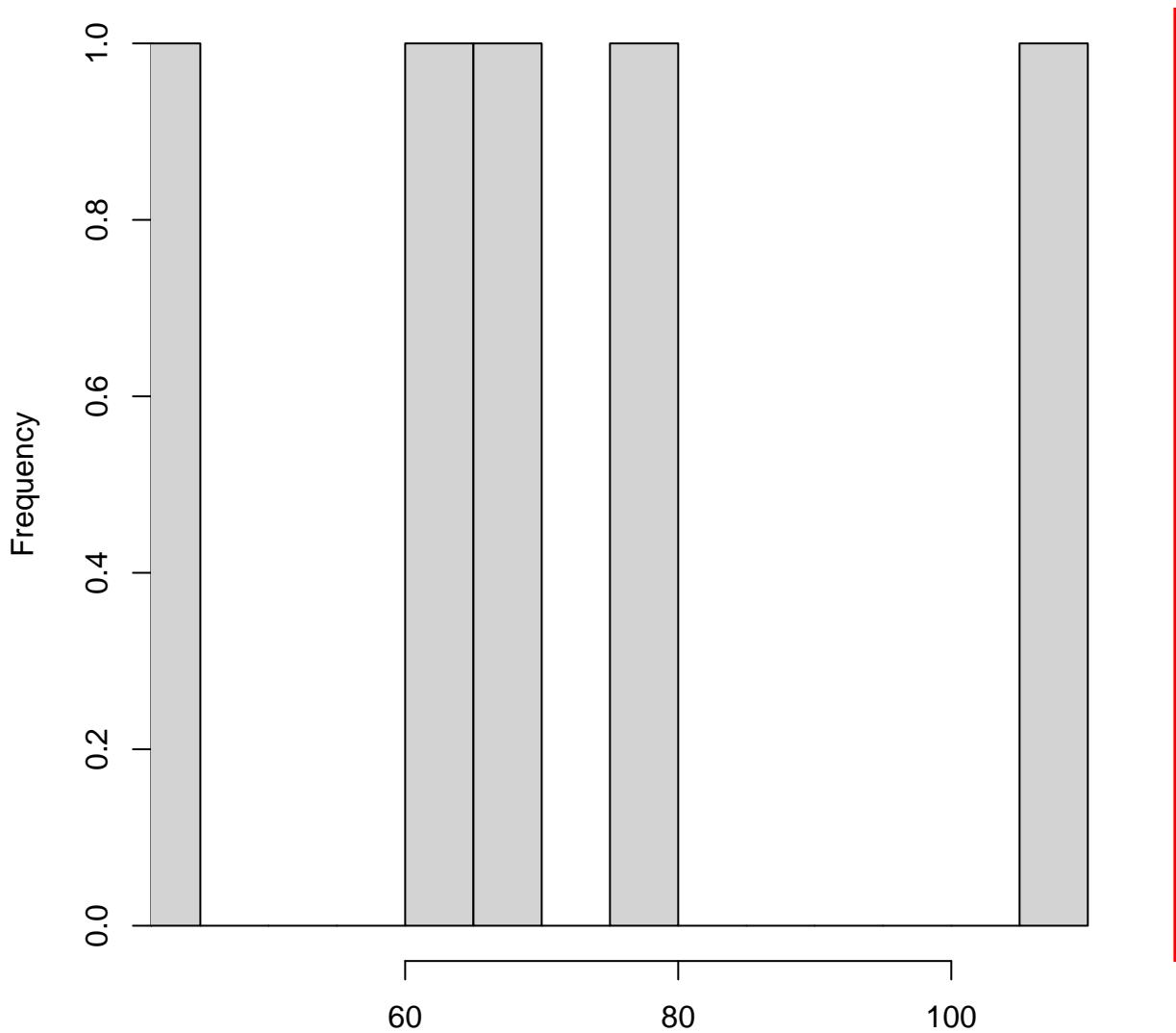


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



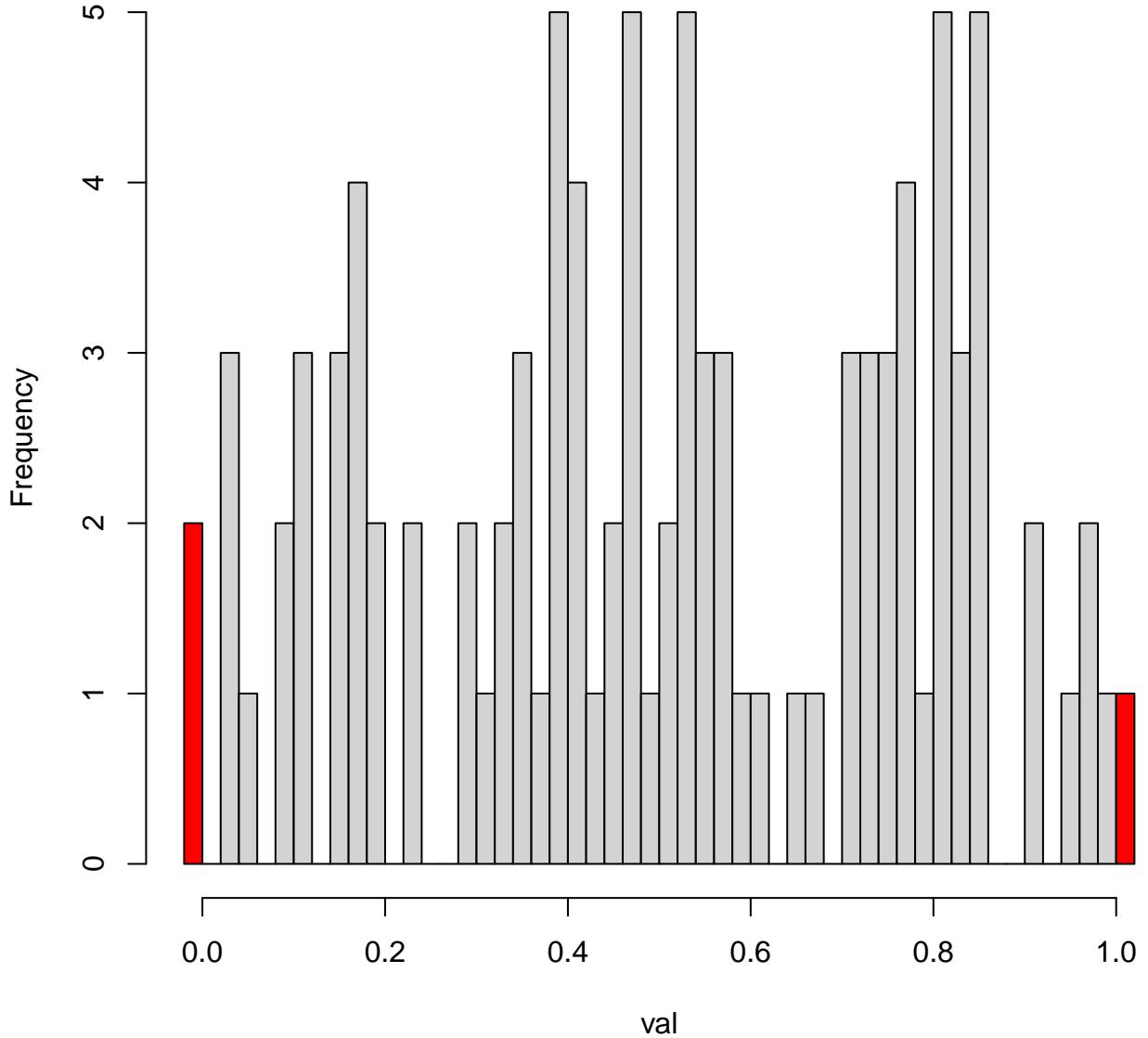
Simulated values, red line = fitted model. p-value (two.sided) = 0.4

DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted

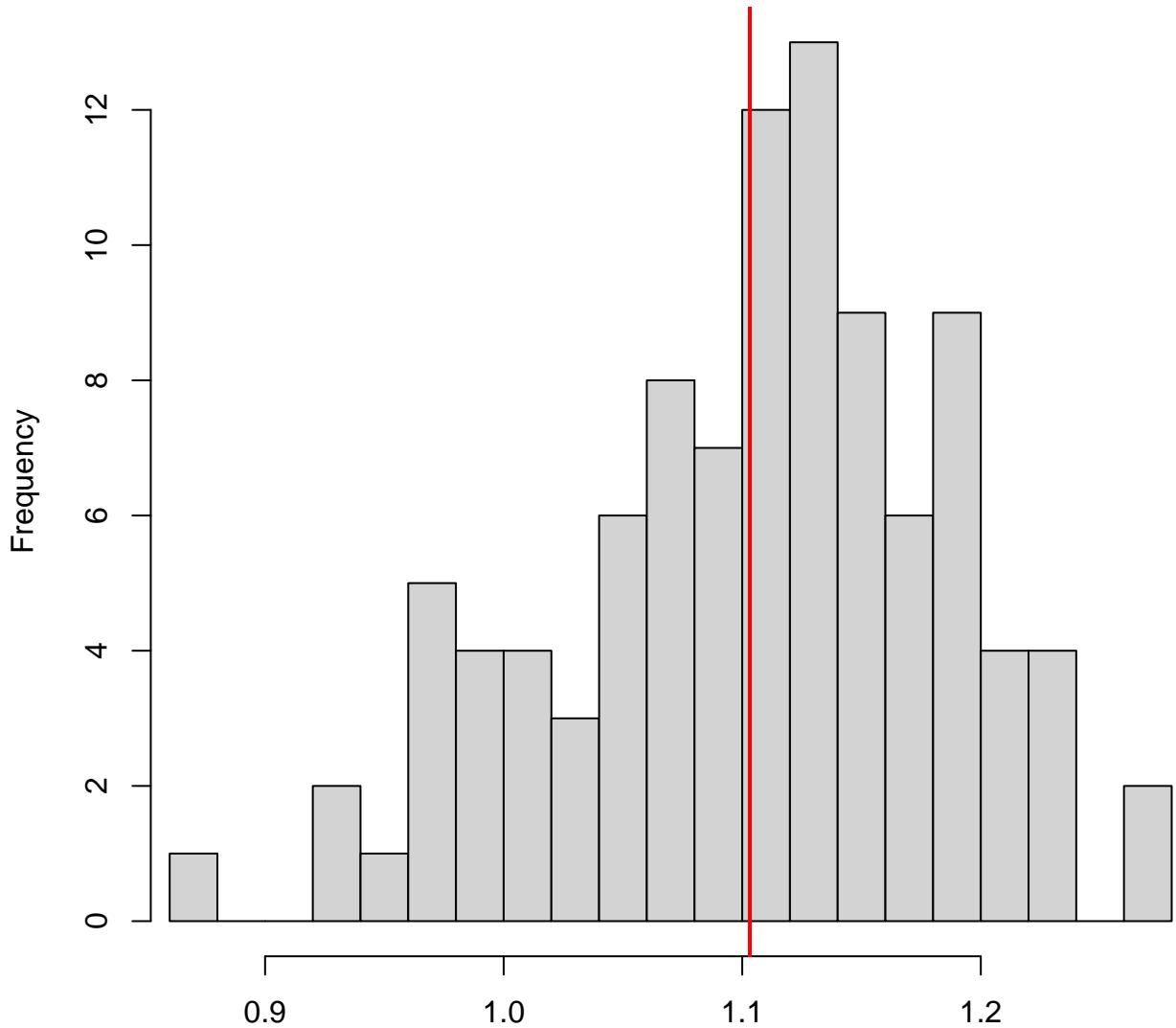


Simulated values, red line = fitted model. p-value (two.sided) = 0

Hist of DHARMA residuals
Outliers are marked red

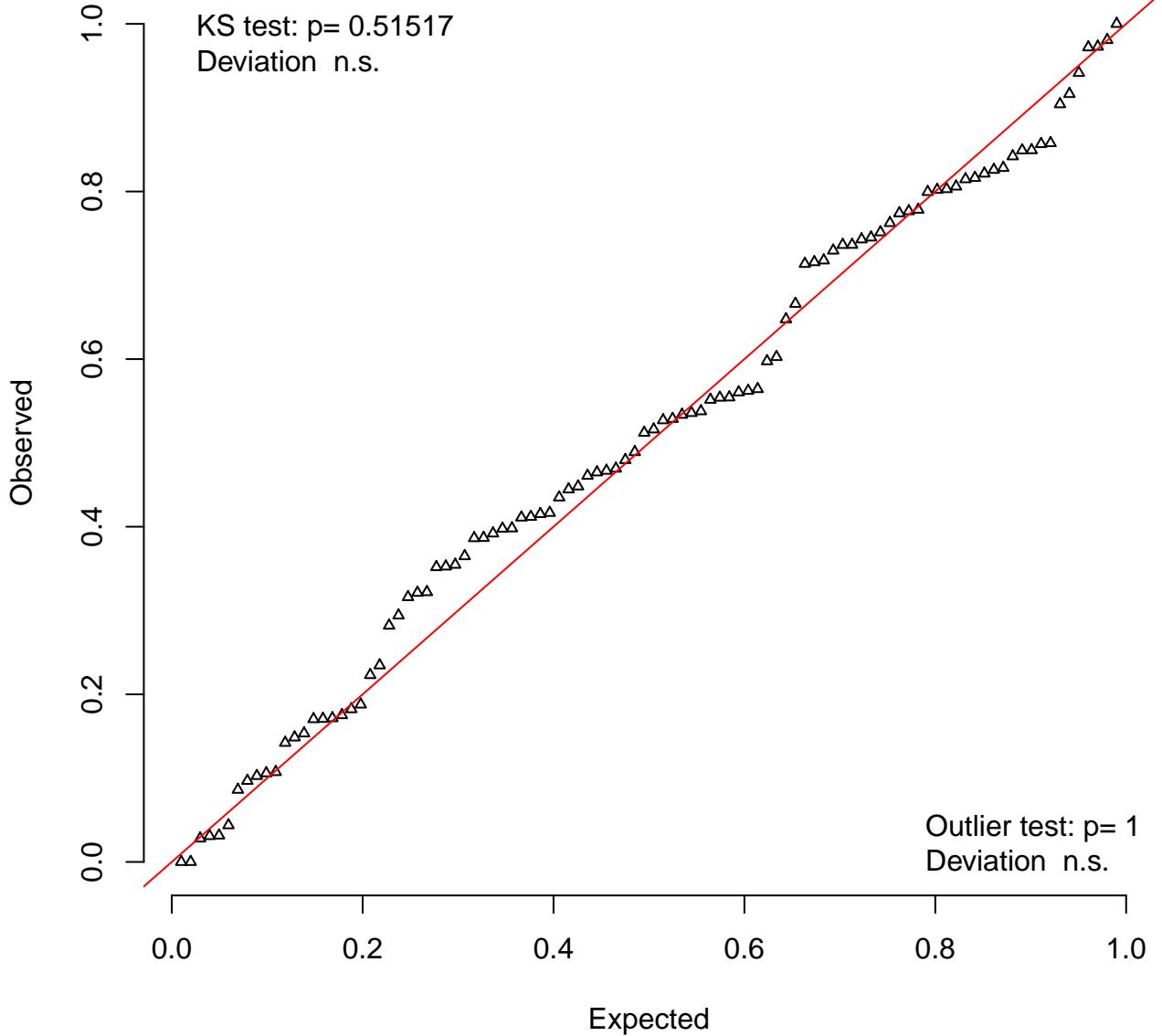


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

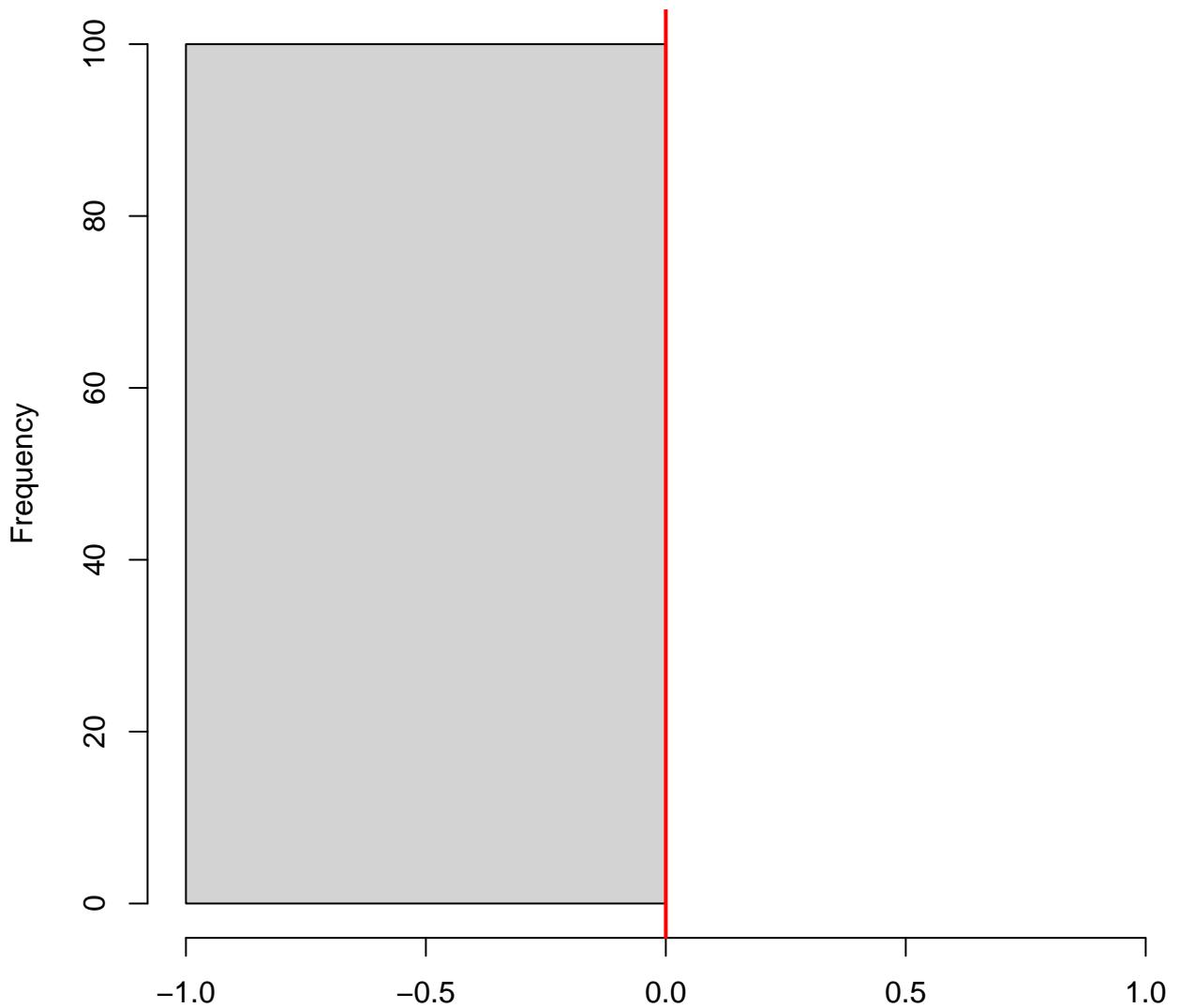


Simulated values, red line = fitted model. p-value (two.sided) = 0.9

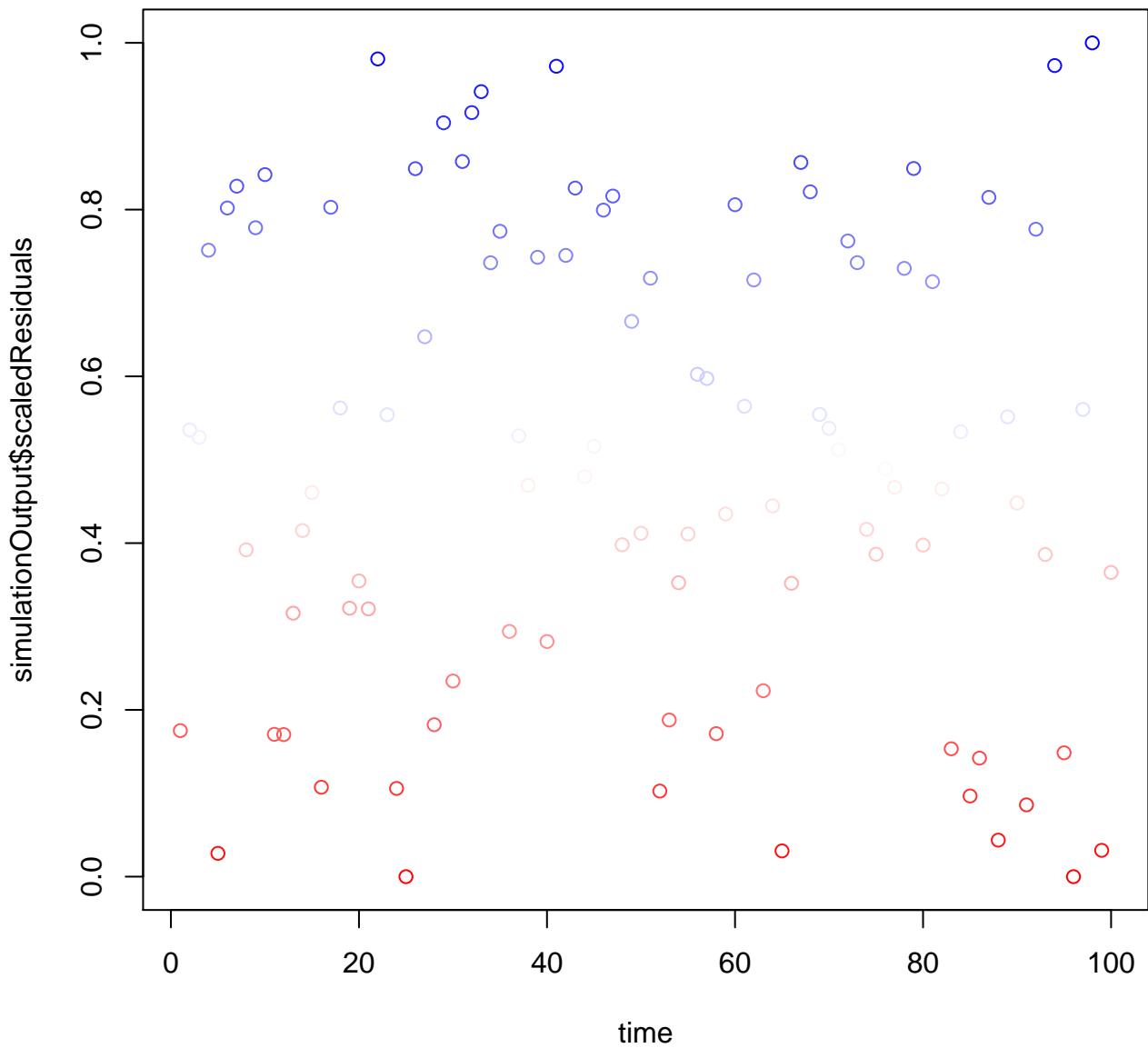
QQ plot residuals

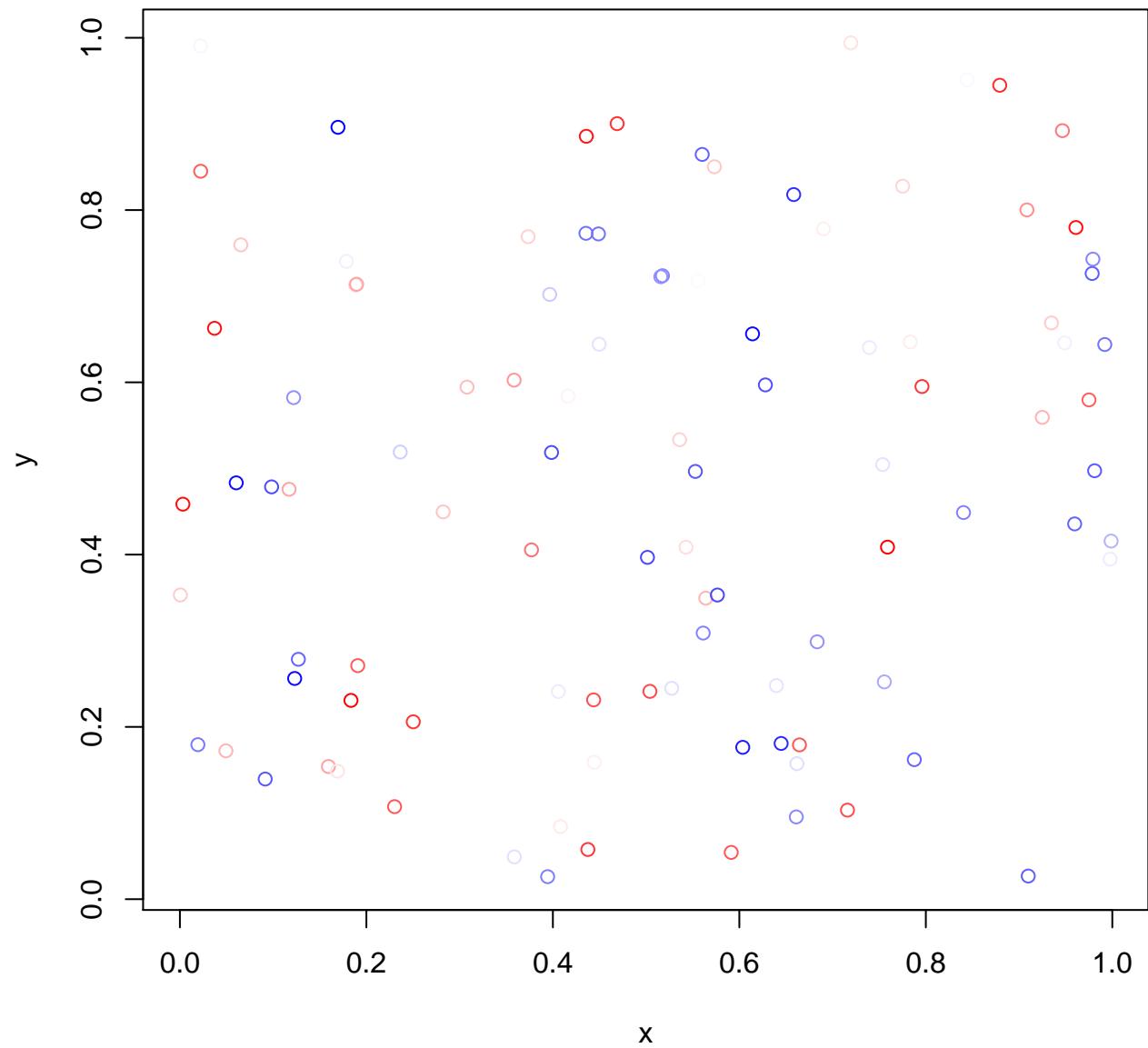


**DHARMA zero-inflation test via comparison to
expected zeros with simulation under H0 = fitted
model**

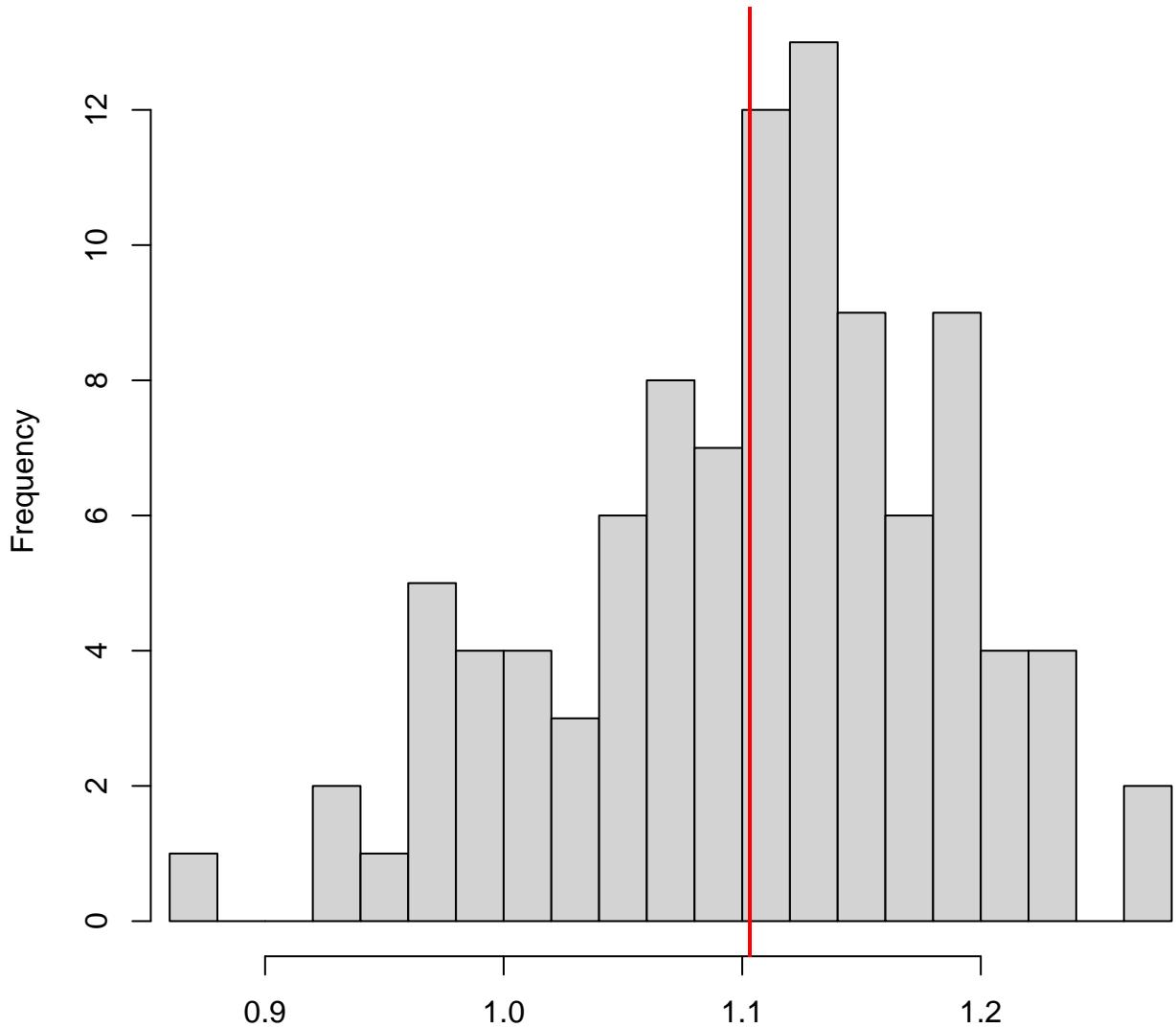


Simulated values, red line = fitted model. p-value (two.sided) = 1



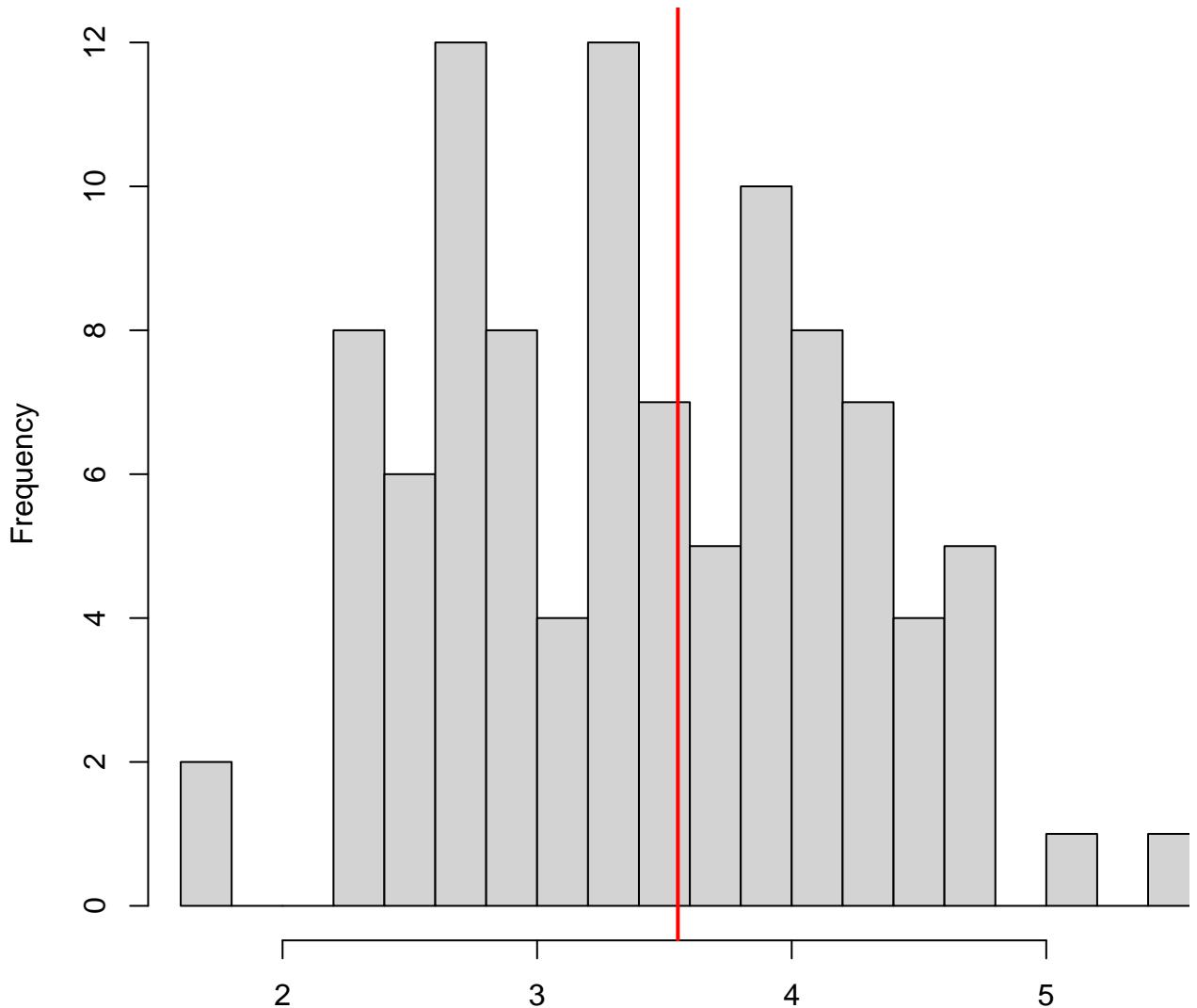


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.9

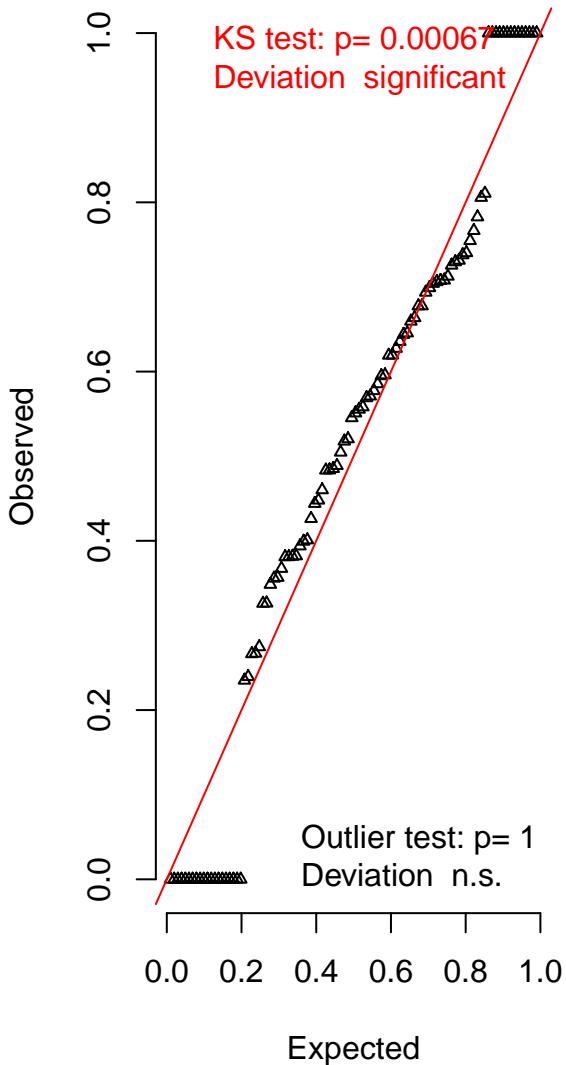
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



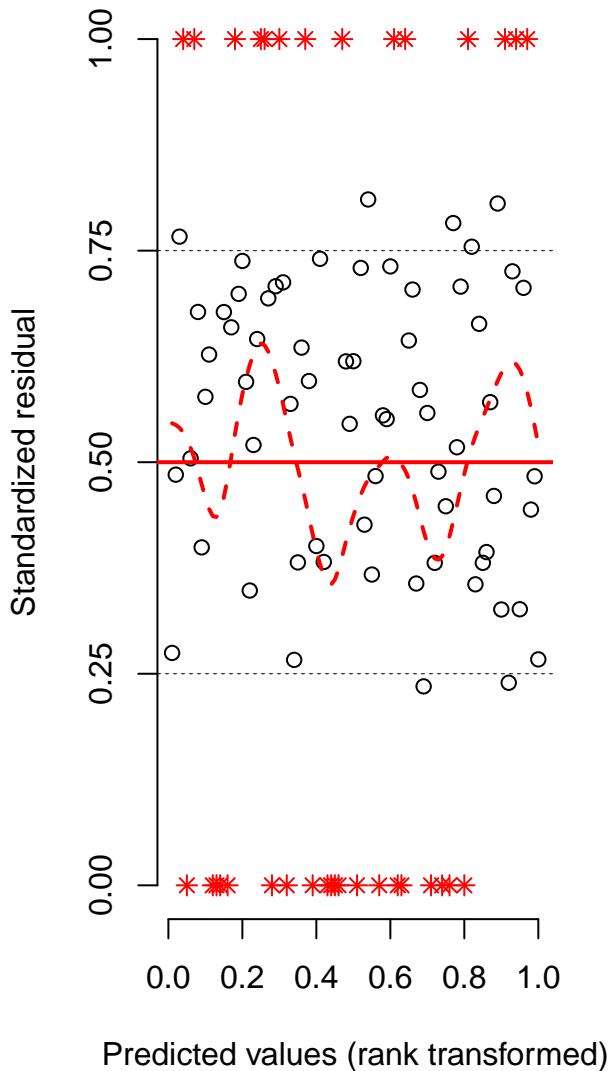
Simulated values, red line = fitted model. p-value (two.sided) = 0.84

DHARMA scaled residual plots

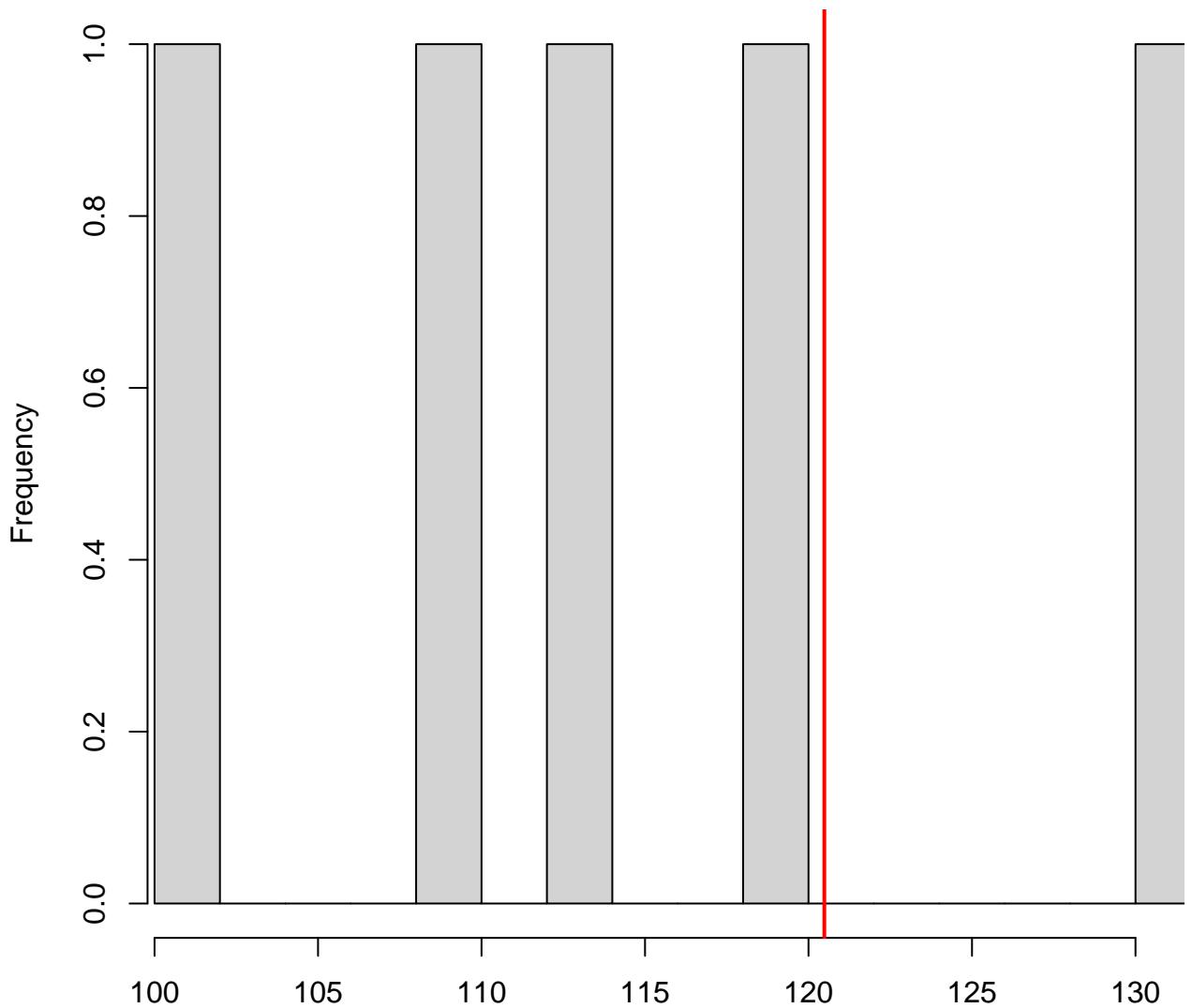
QQ plot residuals



Residual vs. predicted lines should match

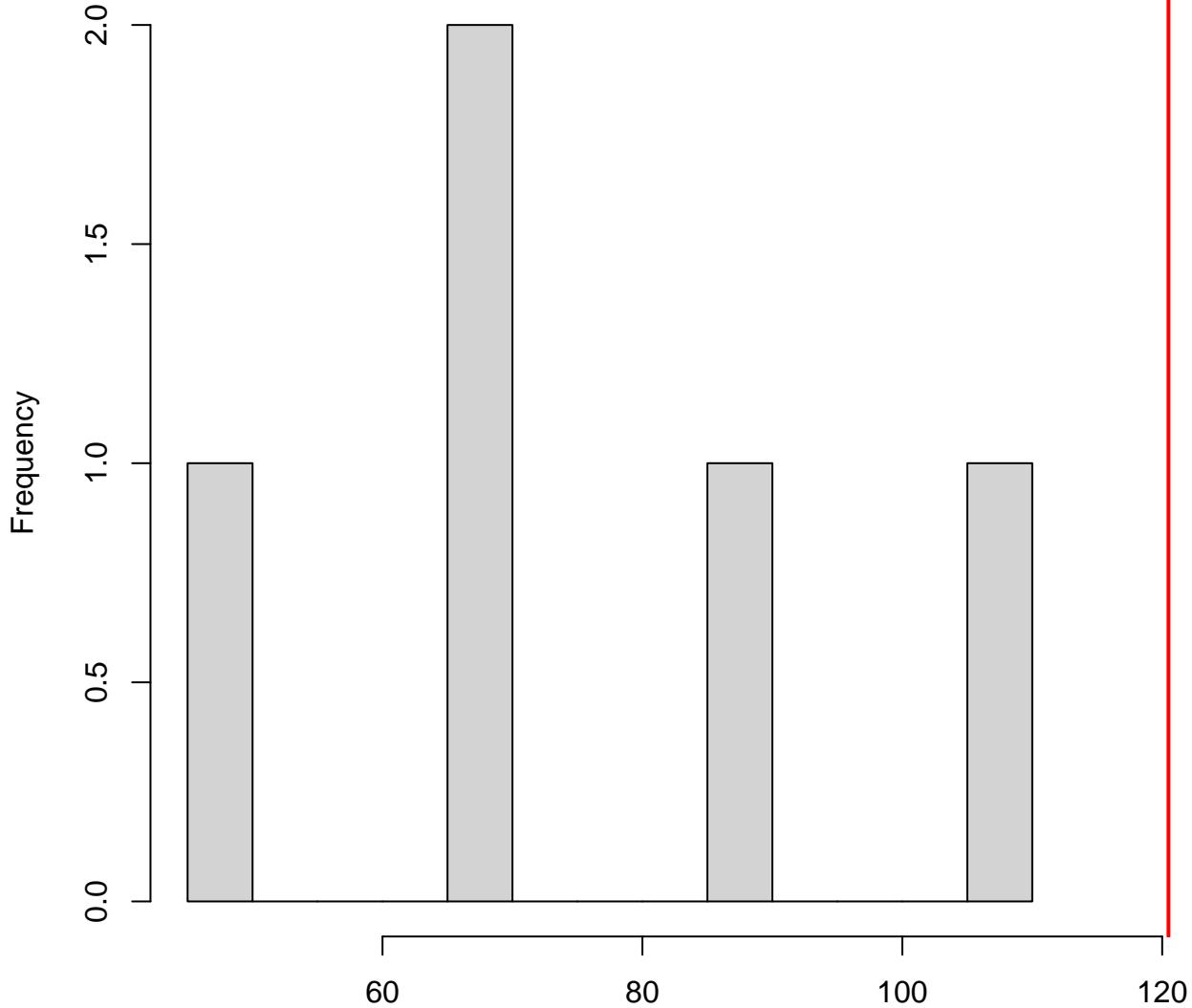


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



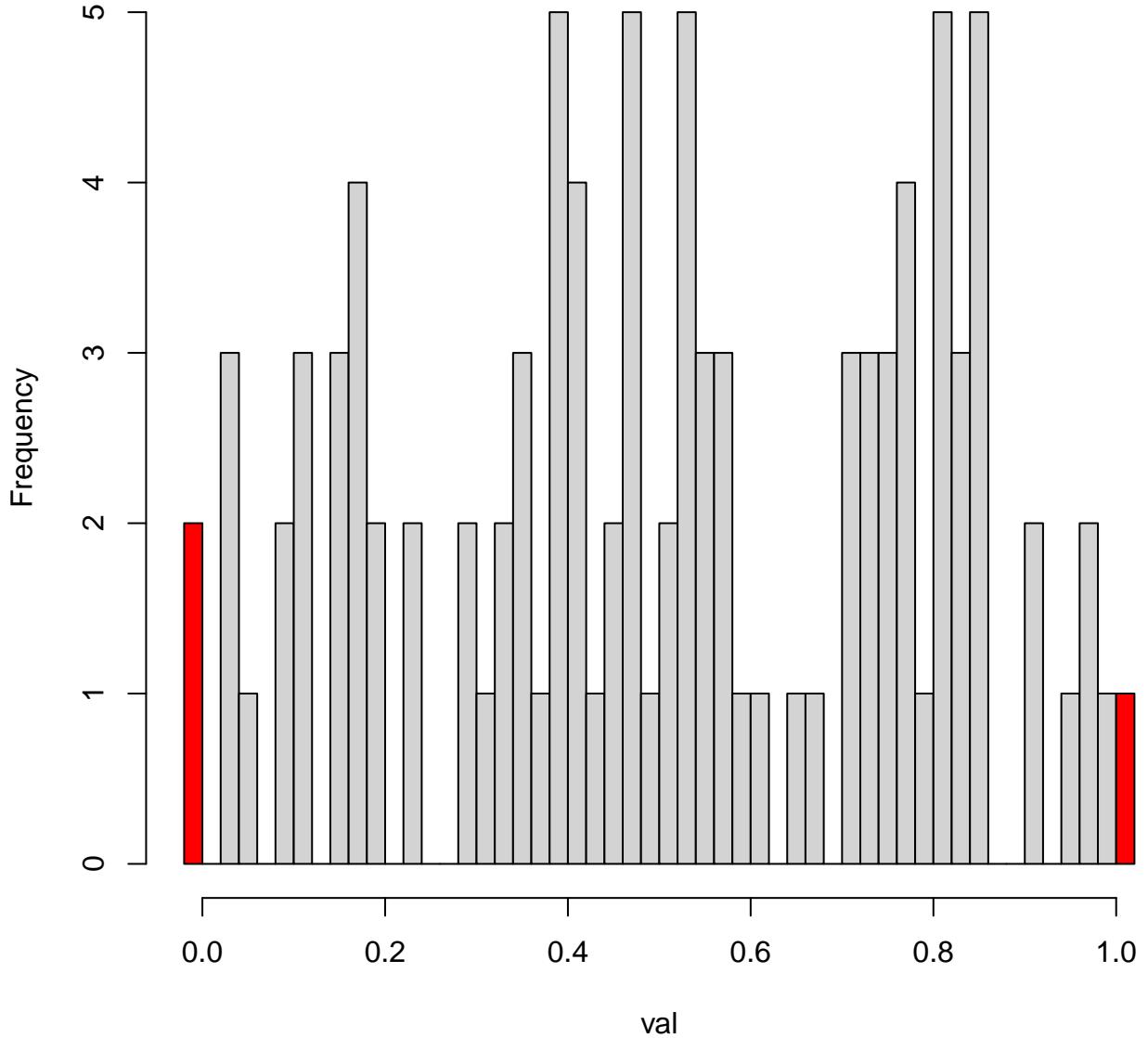
Simulated values, red line = fitted model. p-value (two.sided) = 0.4

DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted

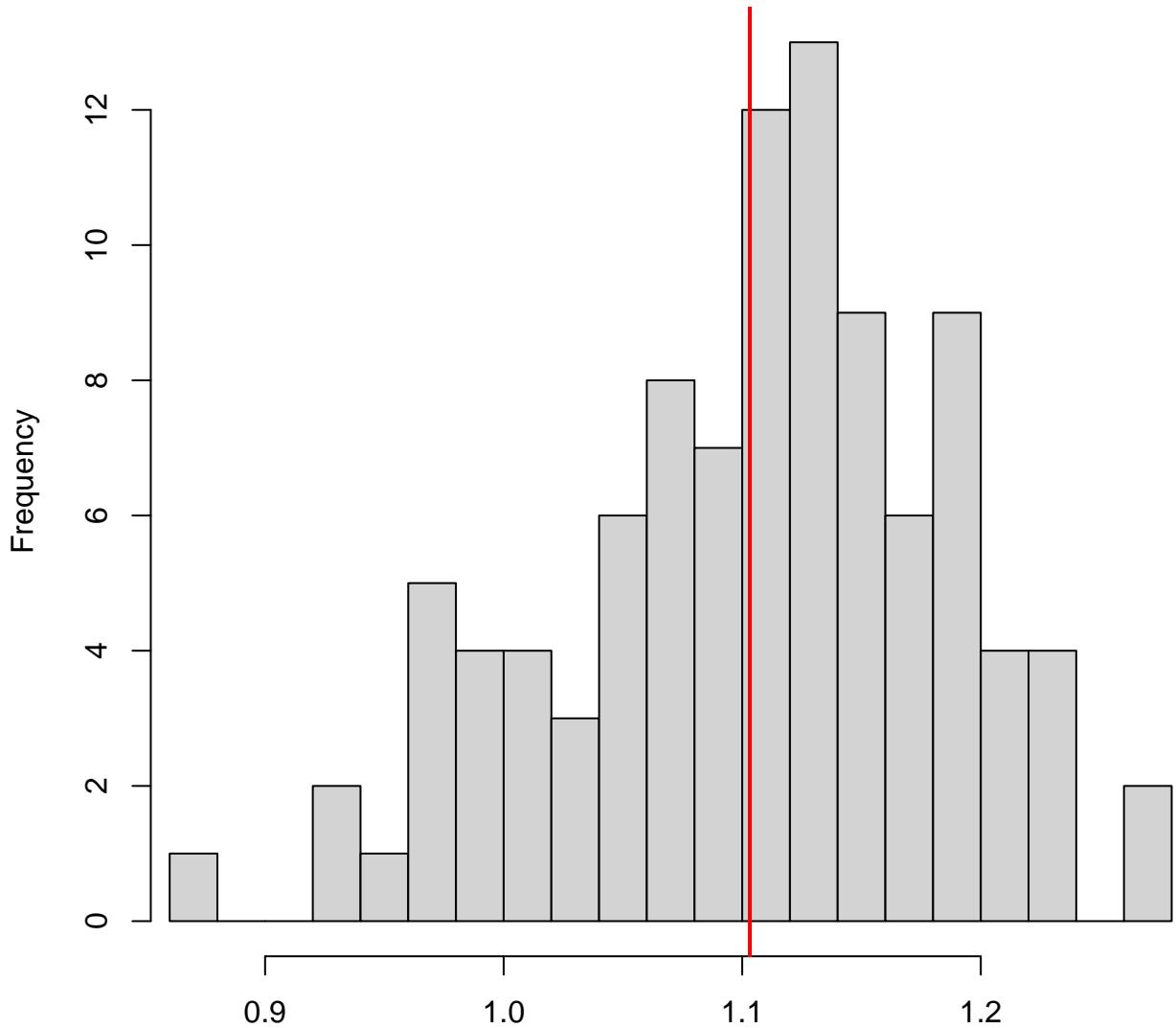


Simulated values, red line = fitted model. p-value (two.sided) = 0

Hist of DHARMA residuals
Outliers are marked red

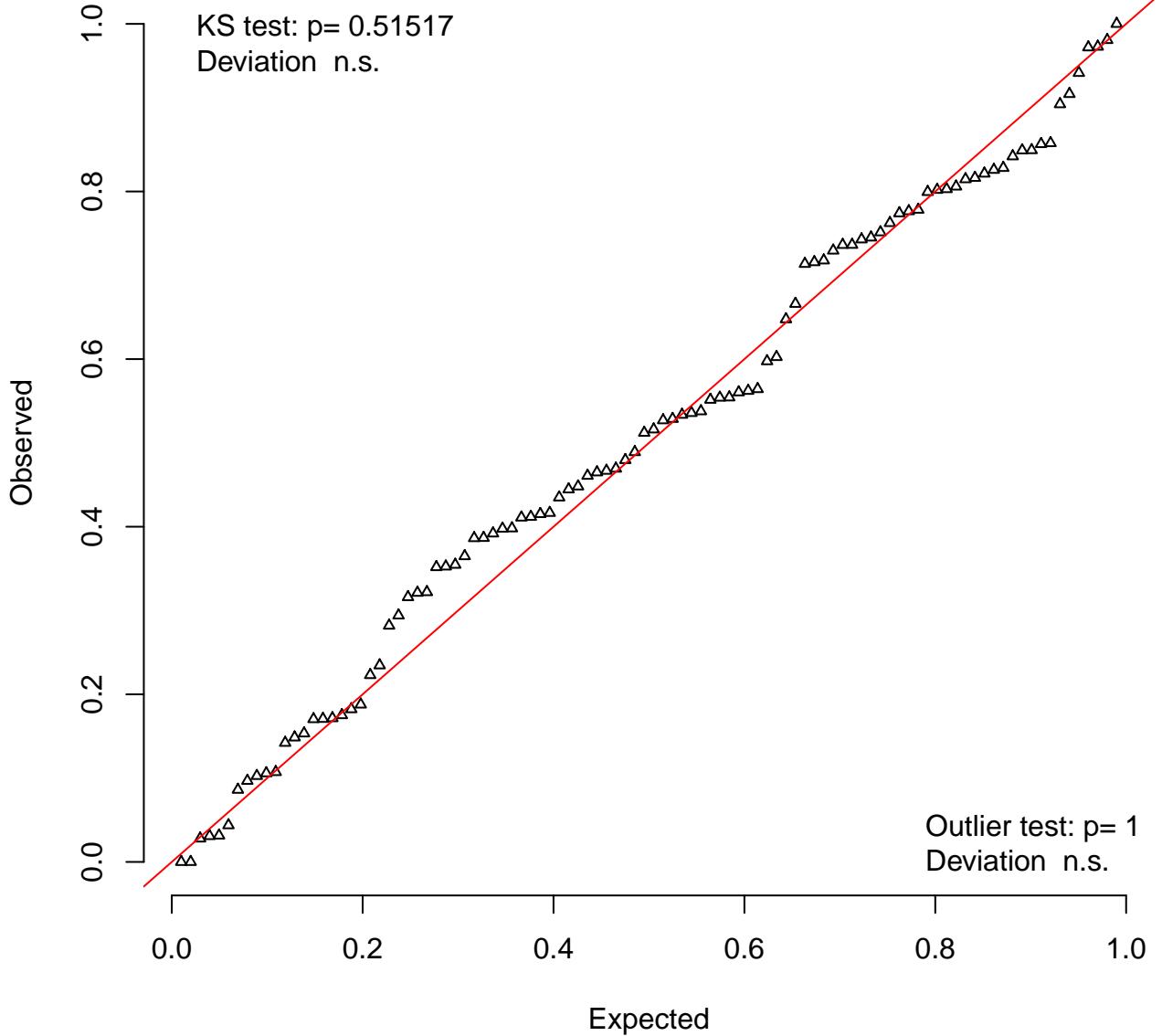


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

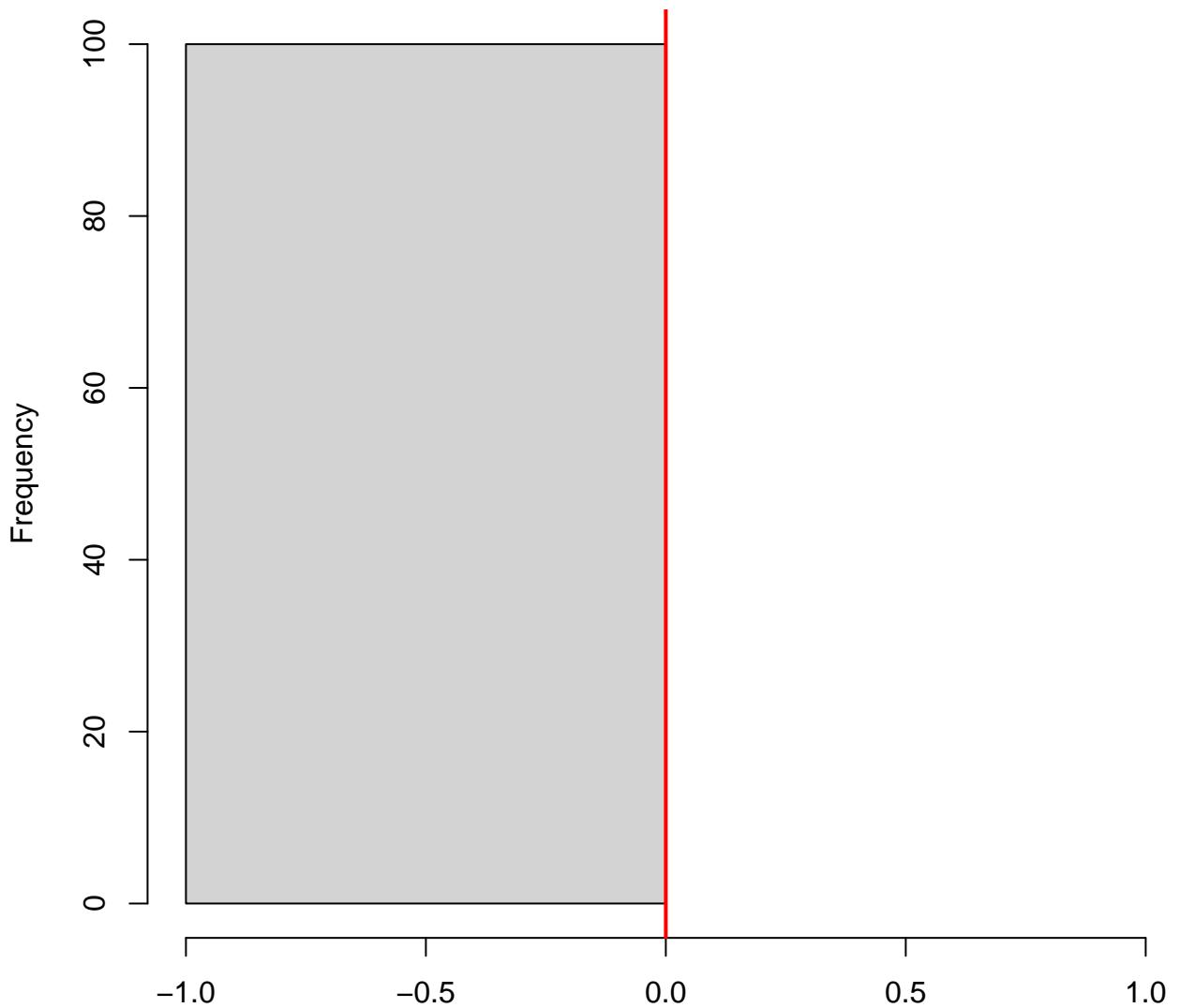


Simulated values, red line = fitted model. p-value (two.sided) = 0.9

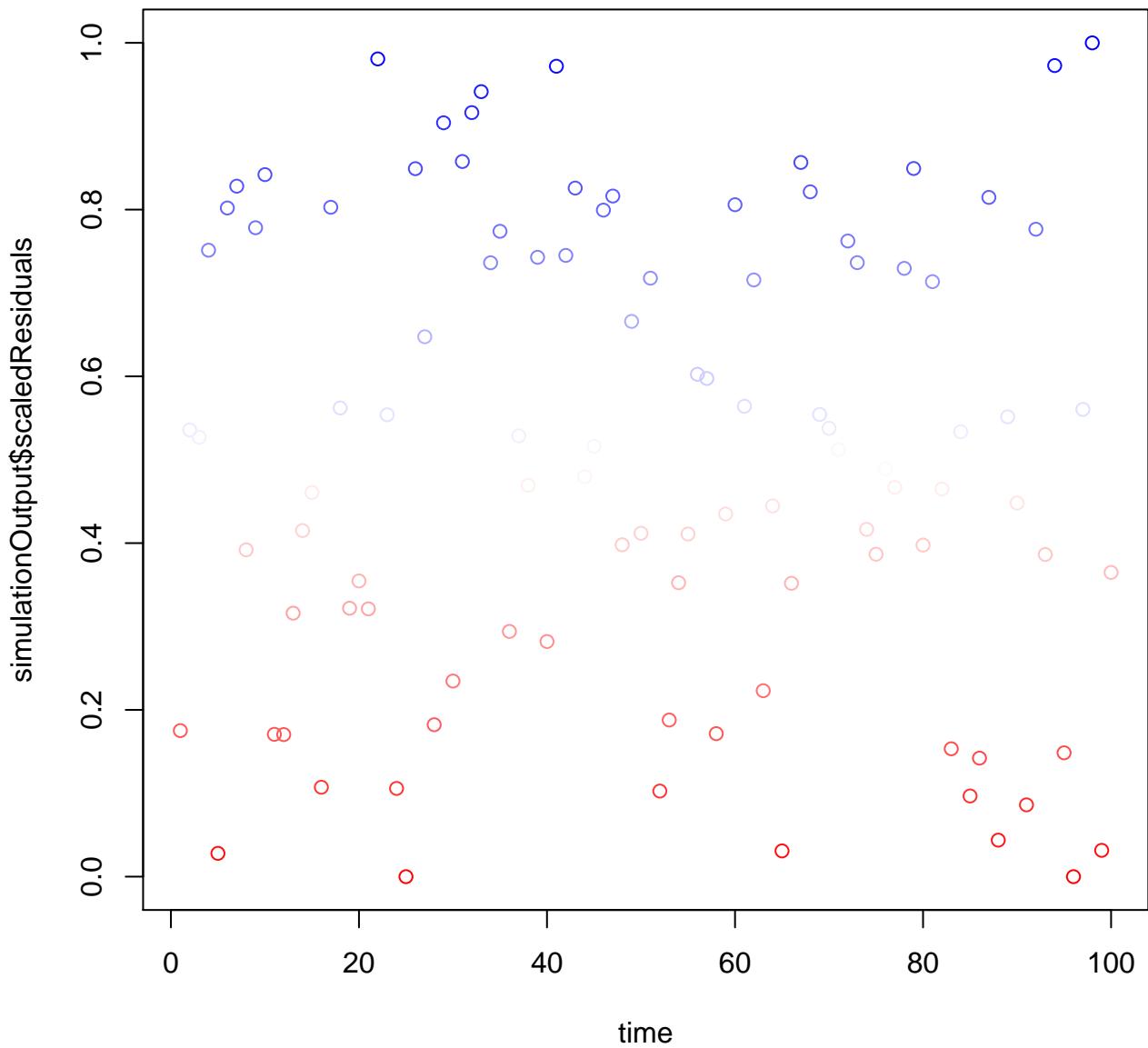
QQ plot residuals

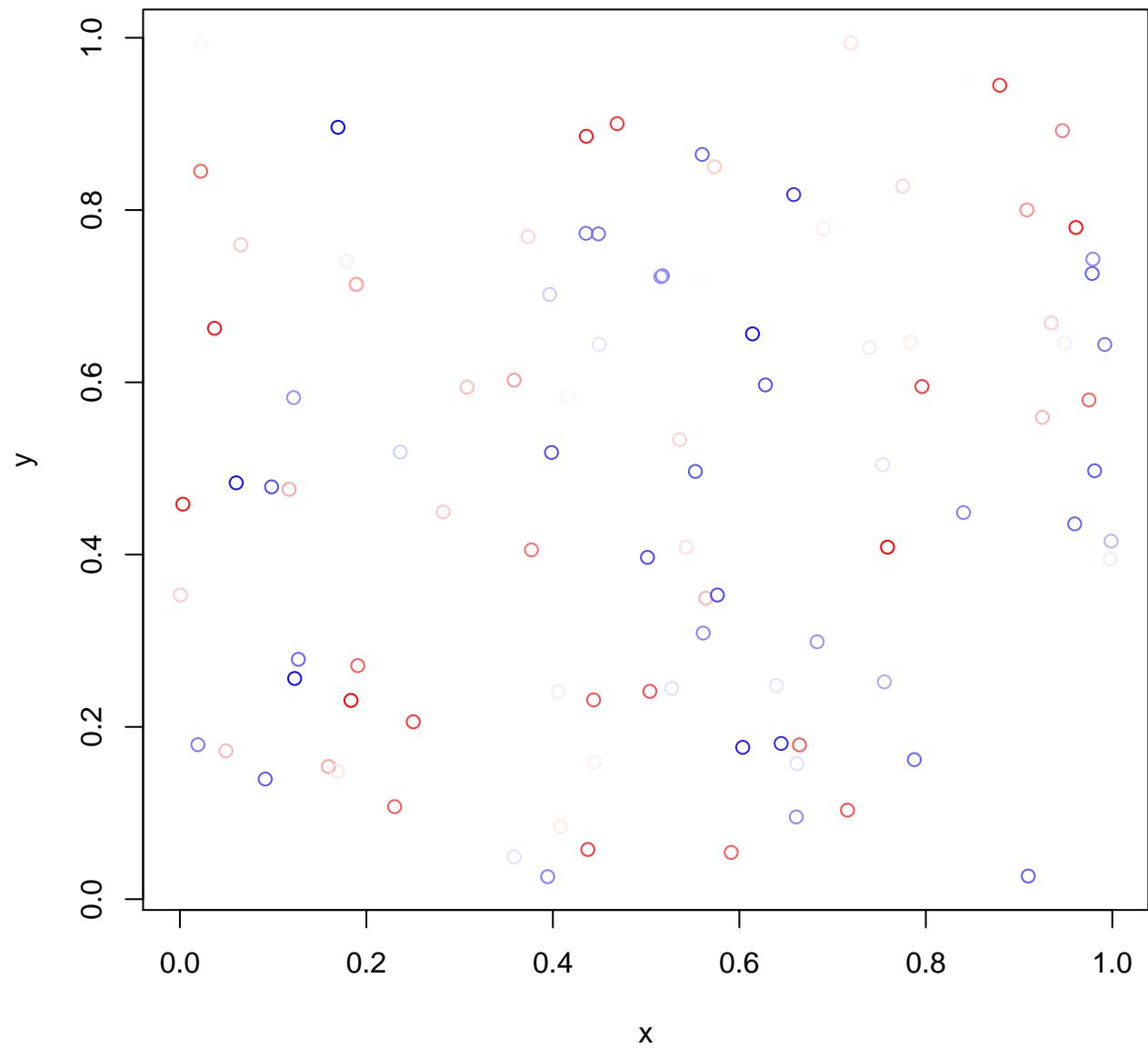


**DHARMA zero-inflation test via comparison to
expected zeros with simulation under H0 = fitted
model**

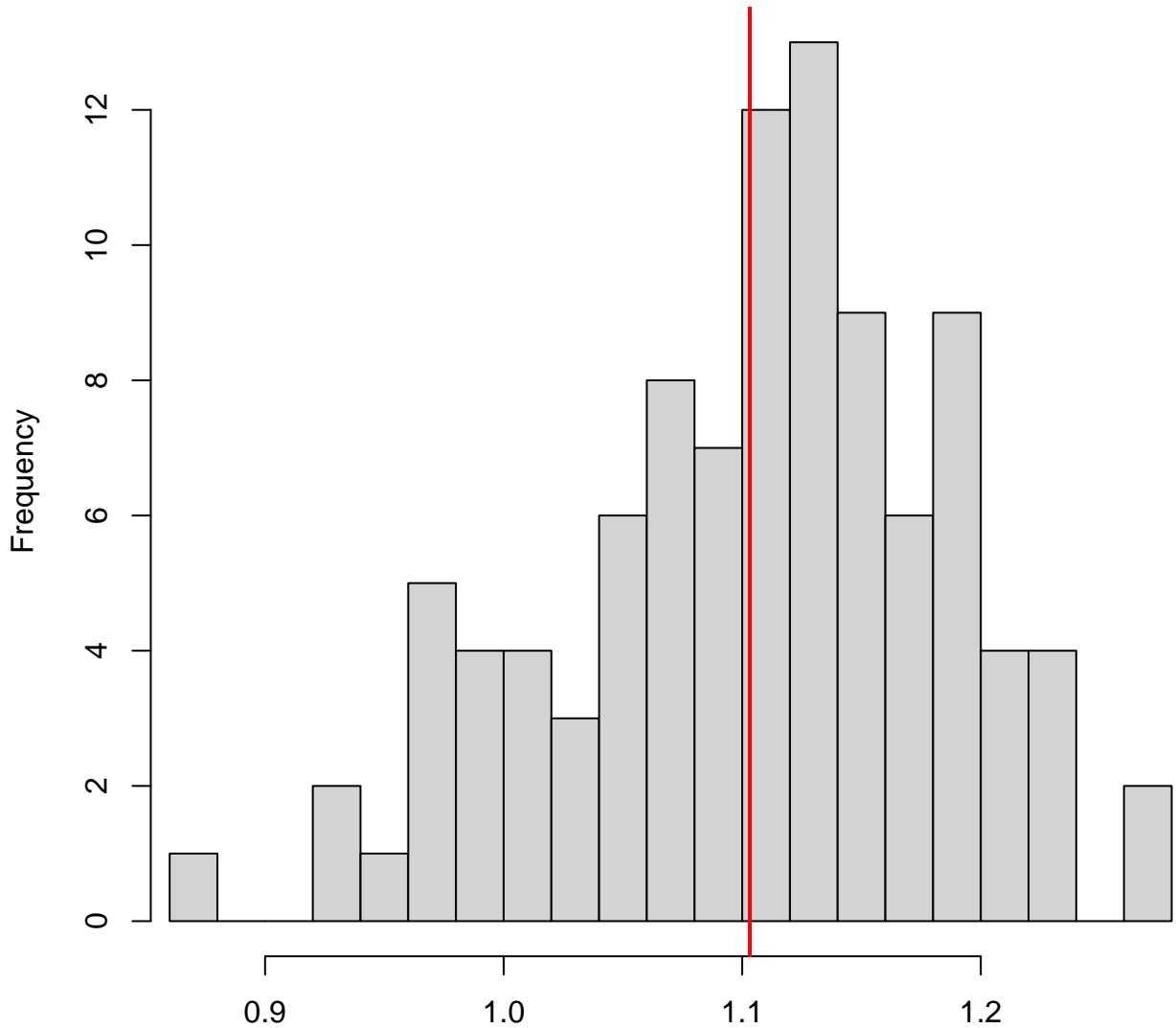


Simulated values, red line = fitted model. p-value (two.sided) = 1



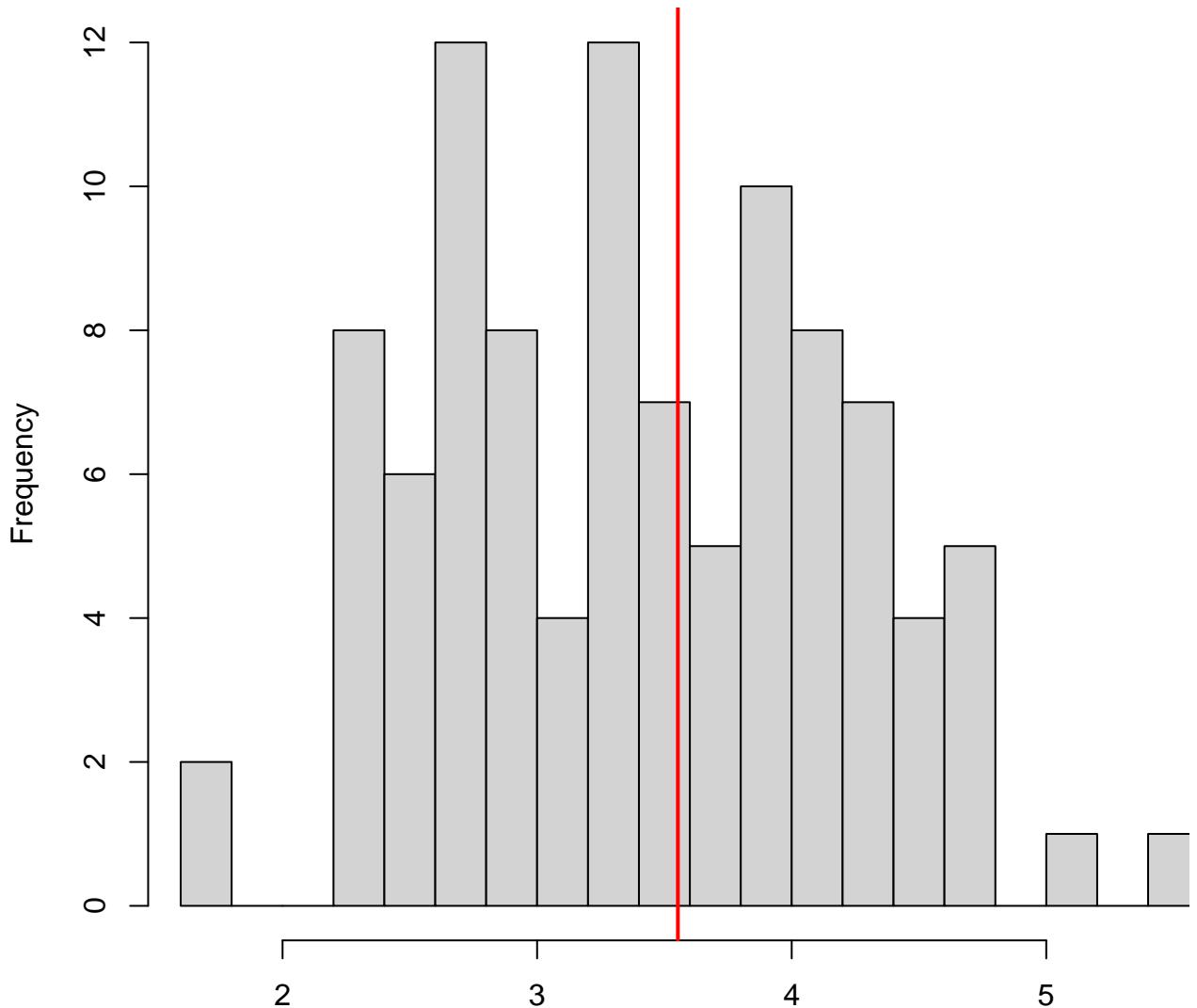


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.9

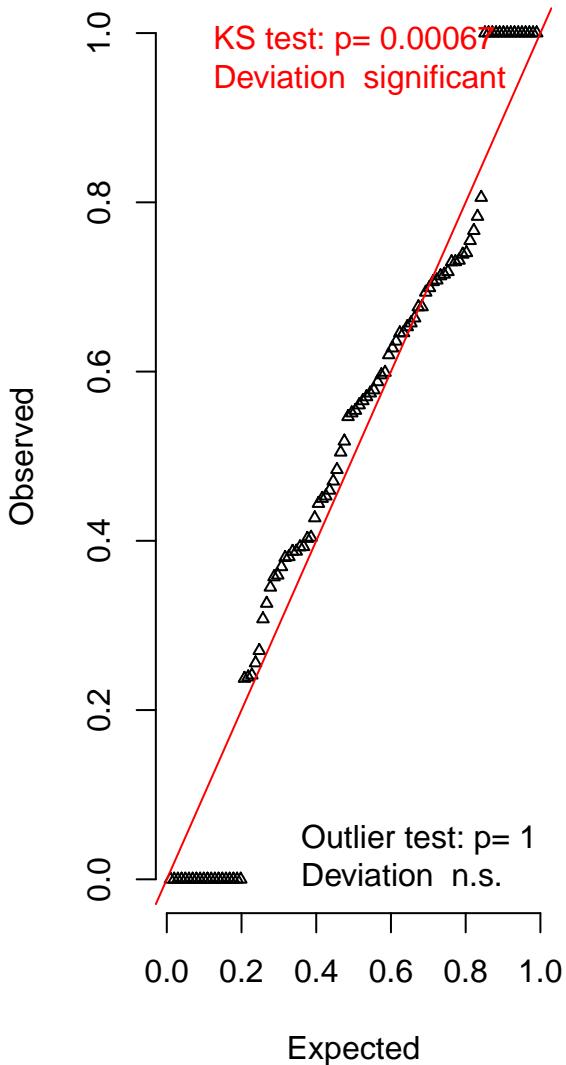
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



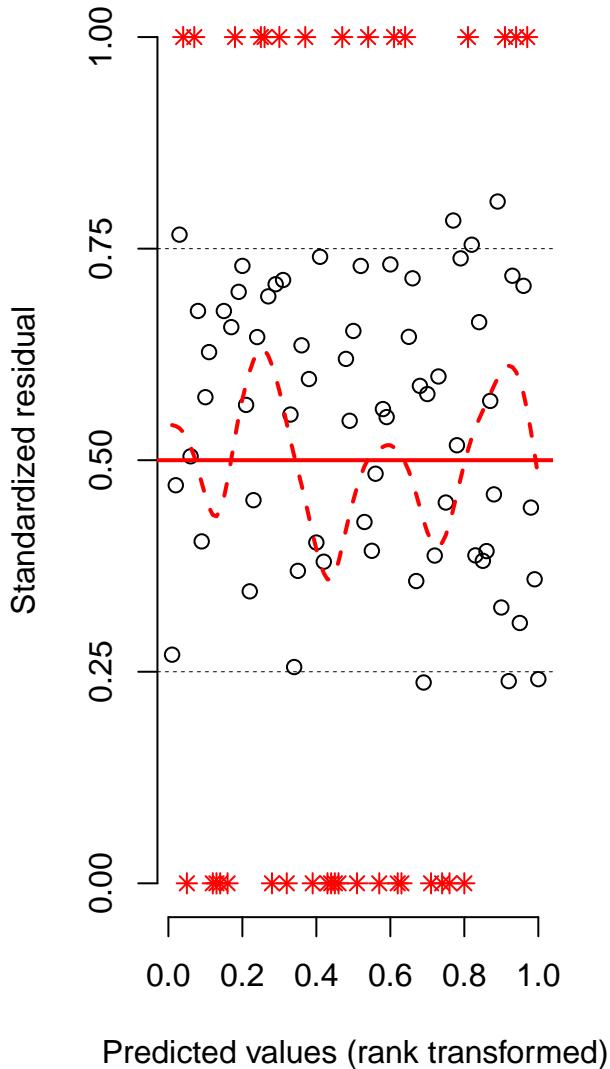
Simulated values, red line = fitted model. p-value (two.sided) = 0.84

DHARMA scaled residual plots

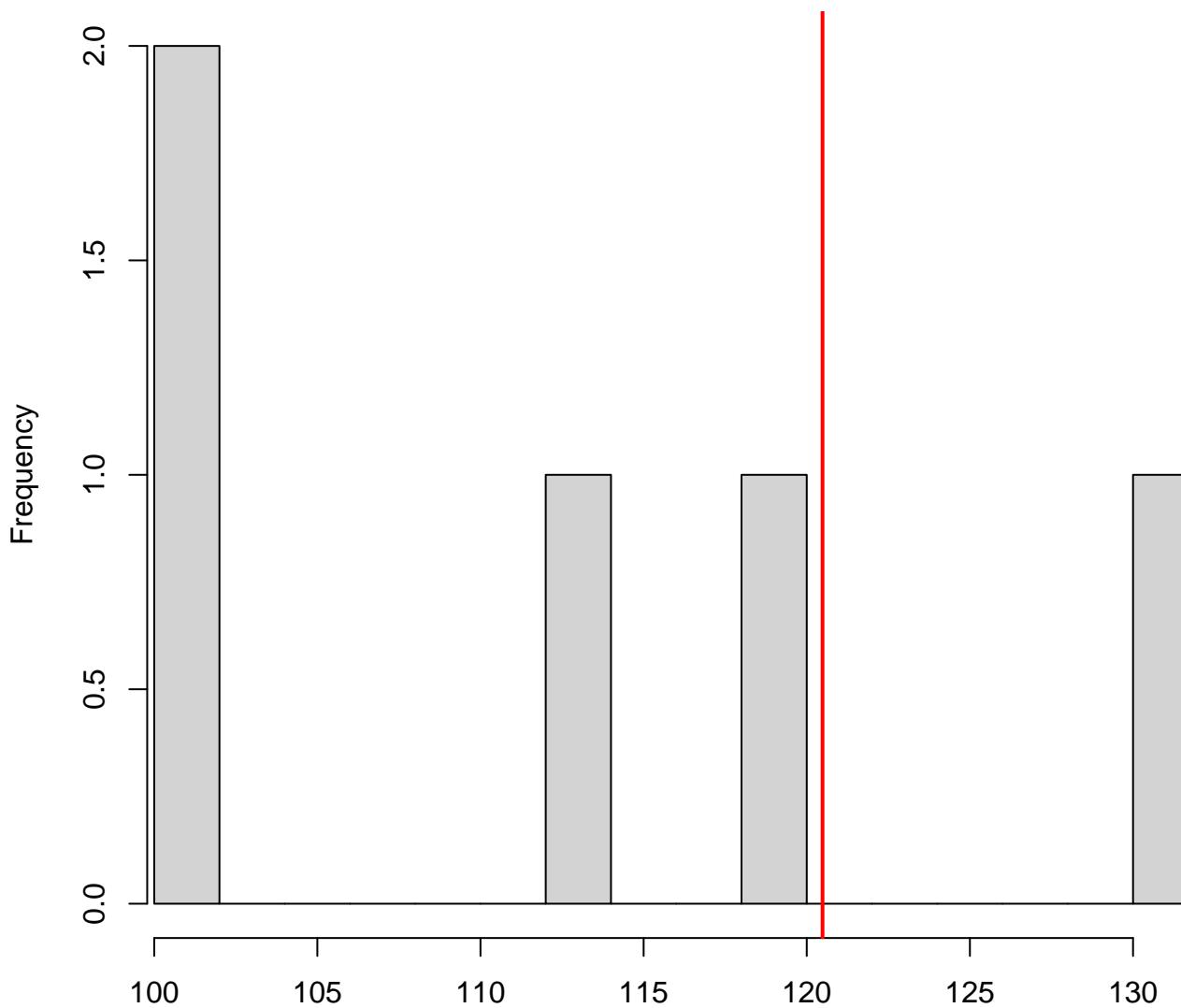
QQ plot residuals



Residual vs. predicted lines should match

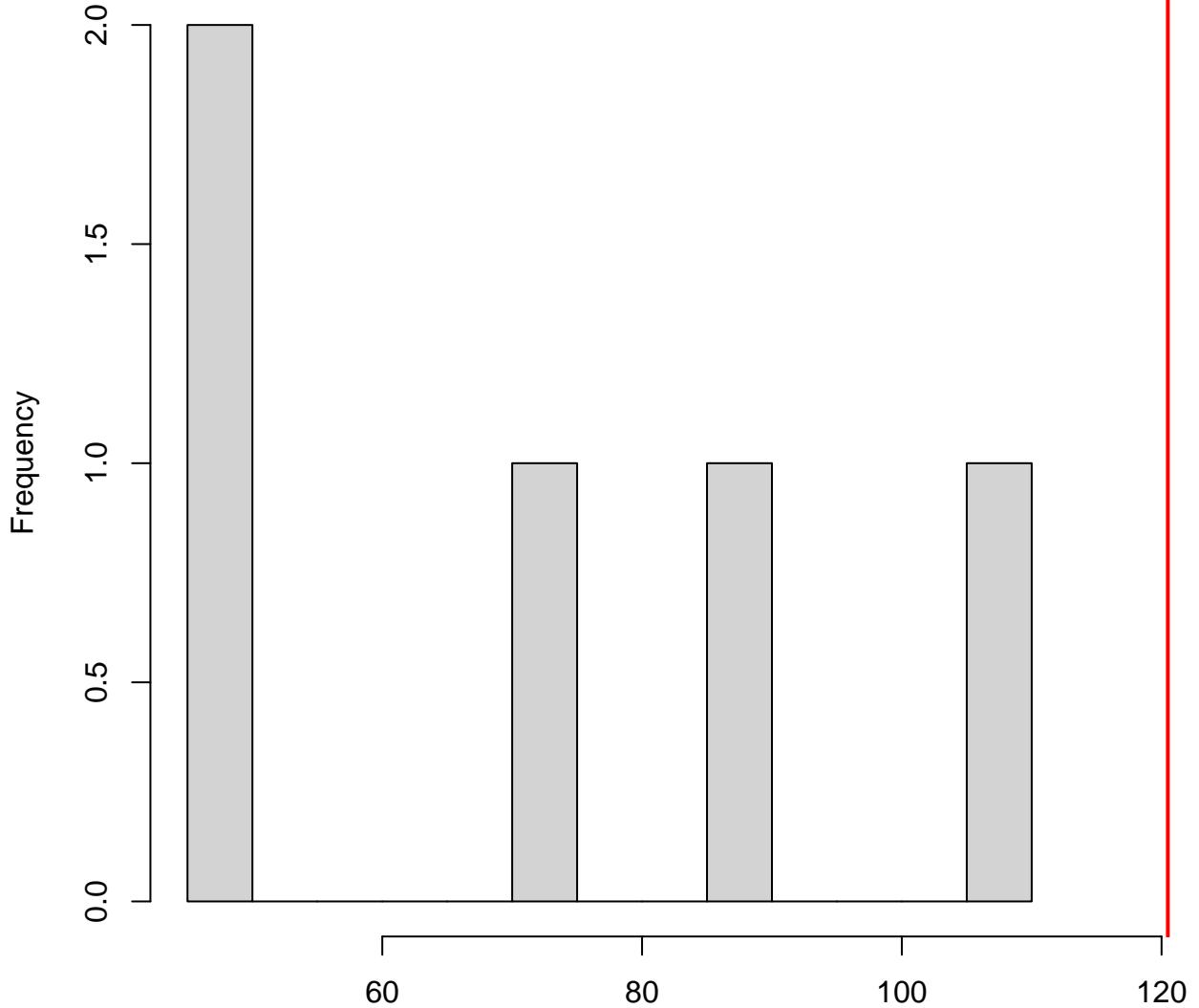


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



Simulated values, red line = fitted model. p-value (two.sided) = 0.4

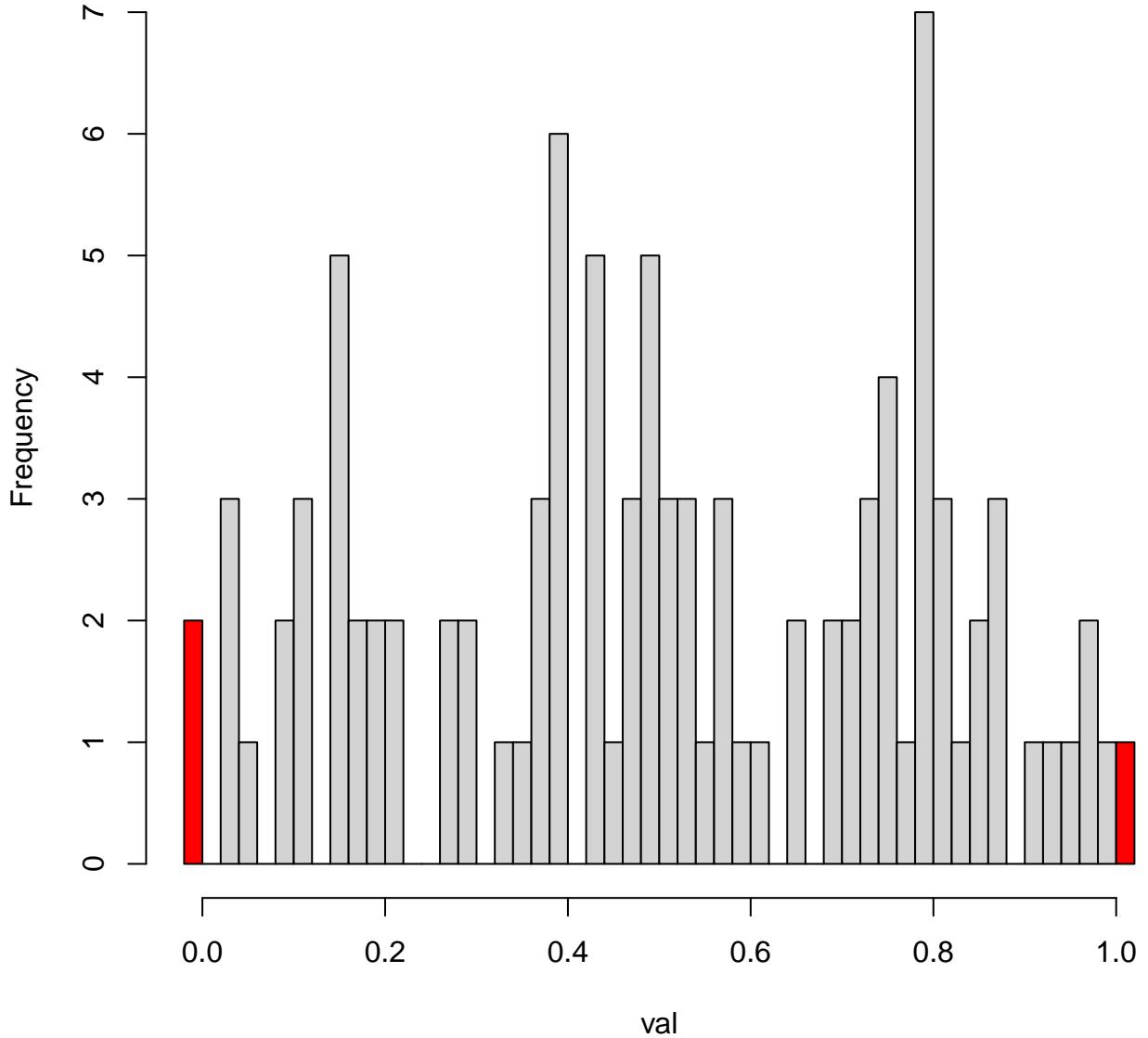
DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



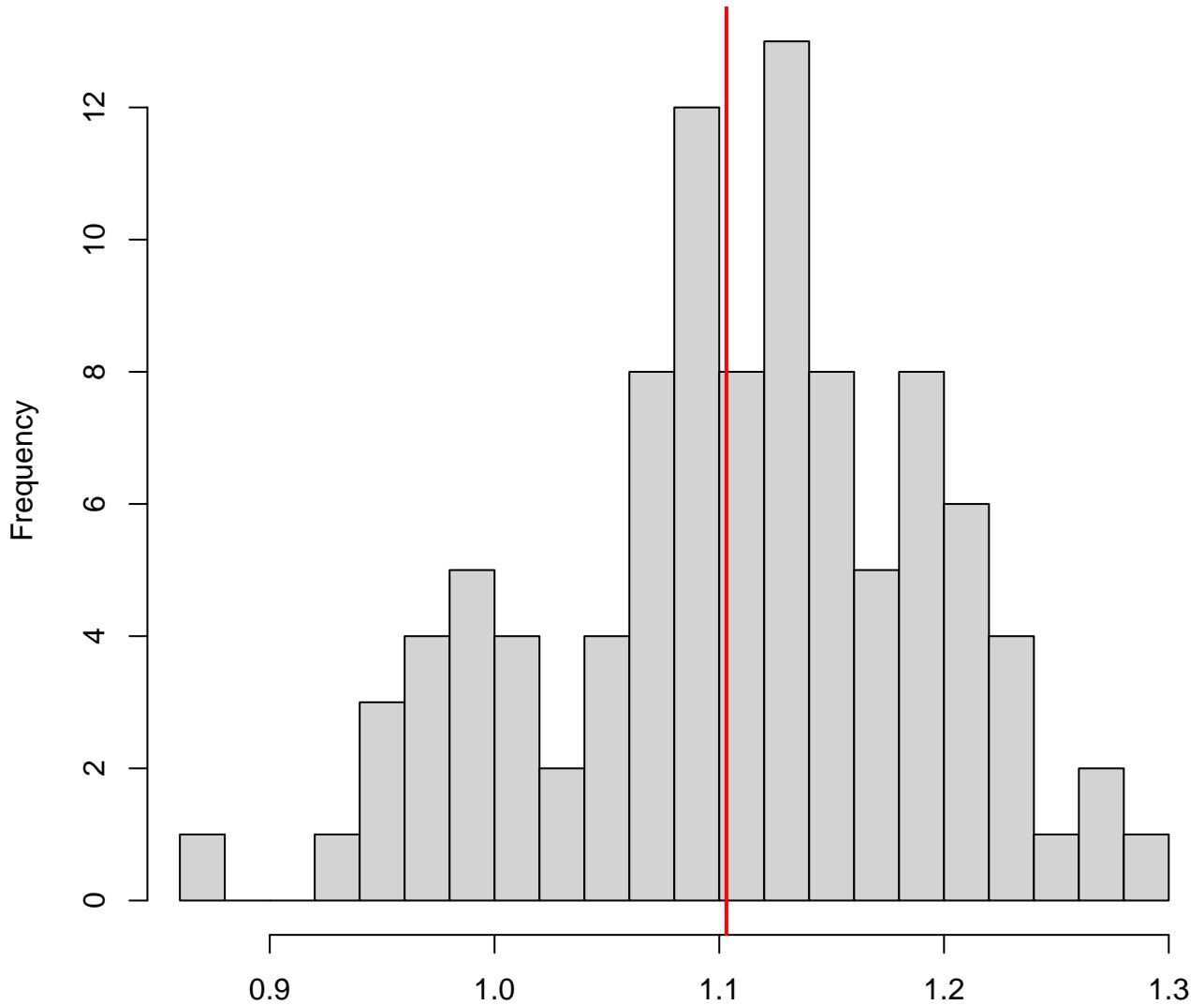
Simulated values, red line = fitted model. p-value (two.sided) = 0

Hist of DHARMA residuals

Outliers are marked red

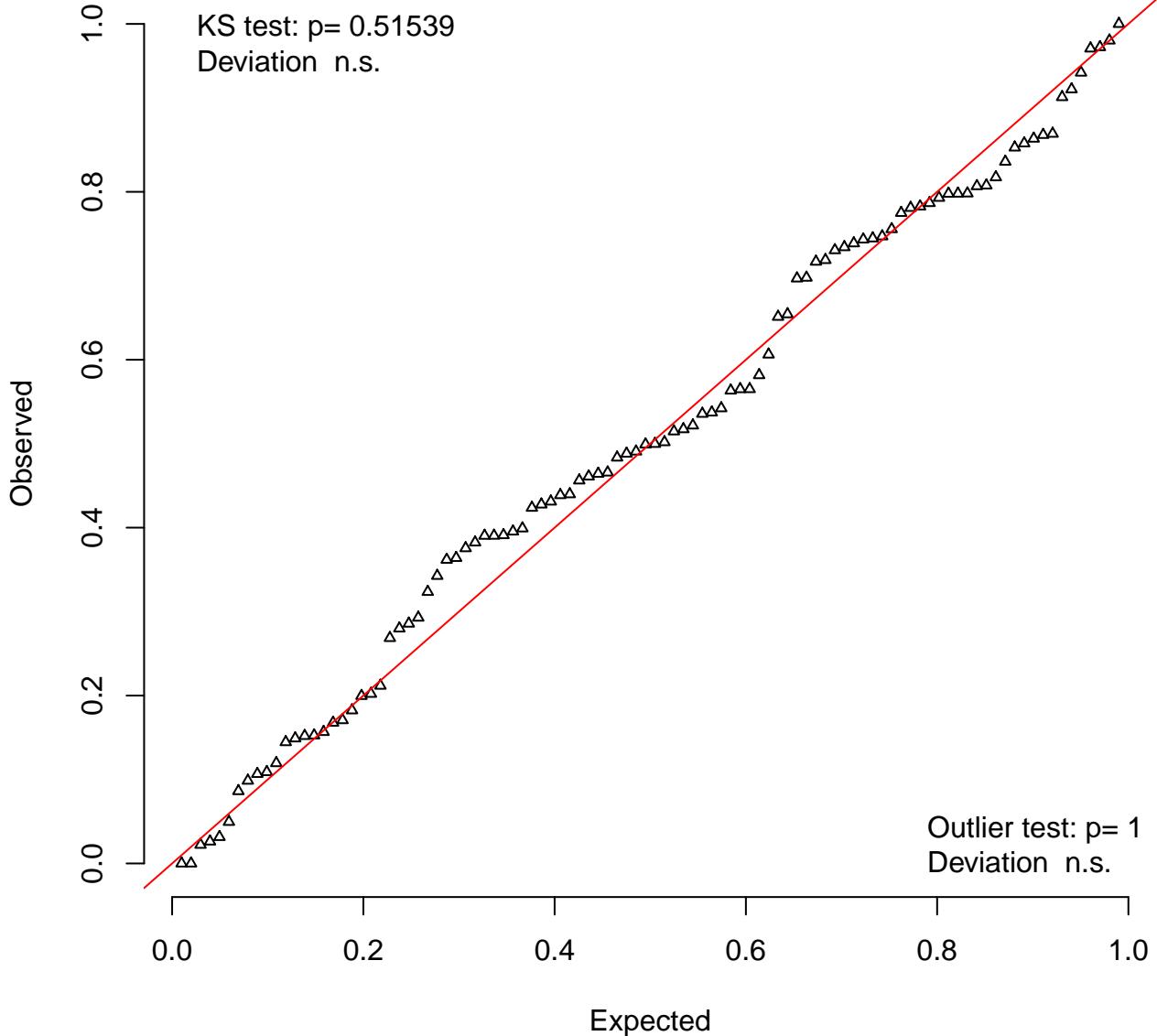


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

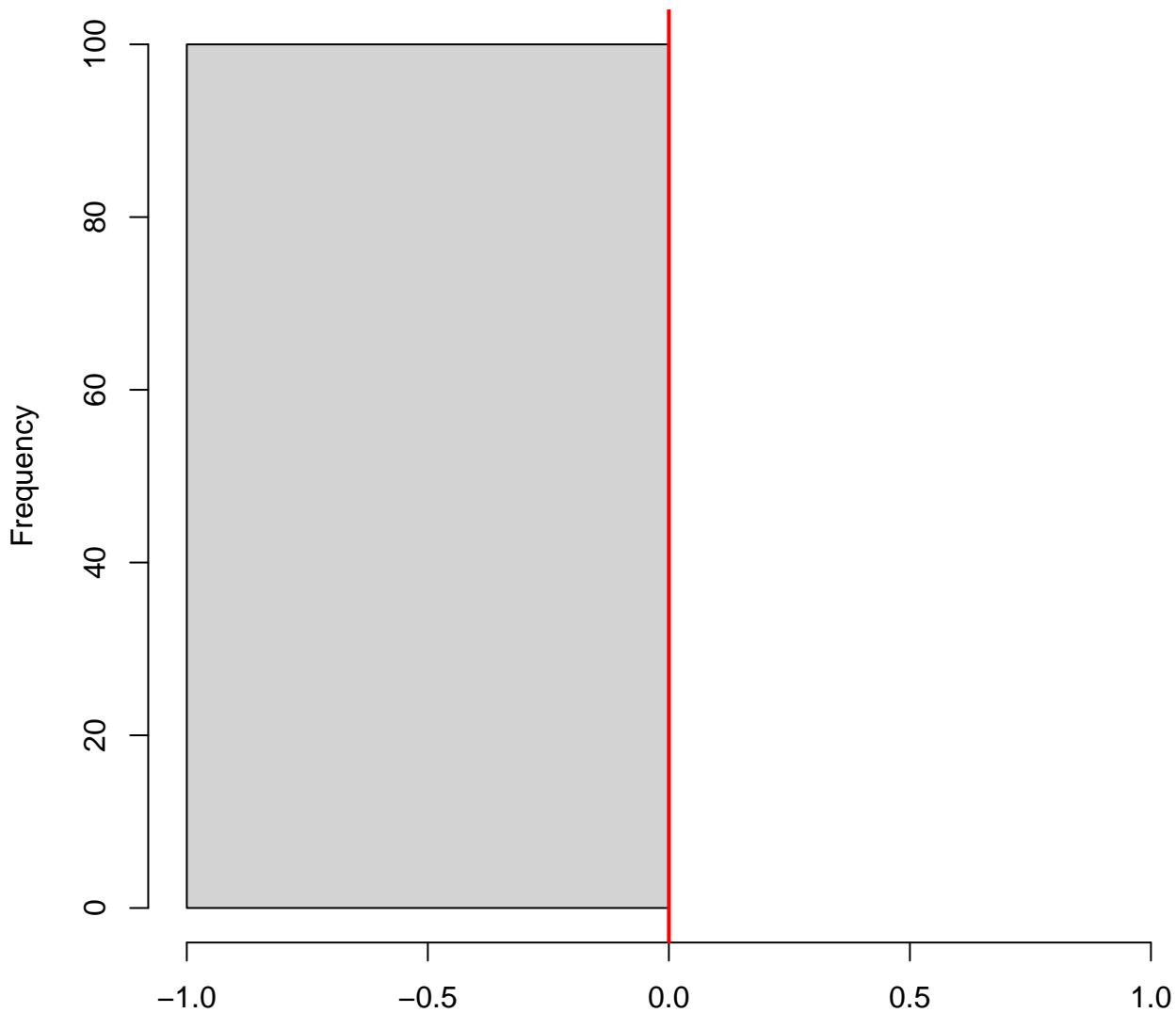


Simulated values, red line = fitted model. p-value (two.sided) = 0.9

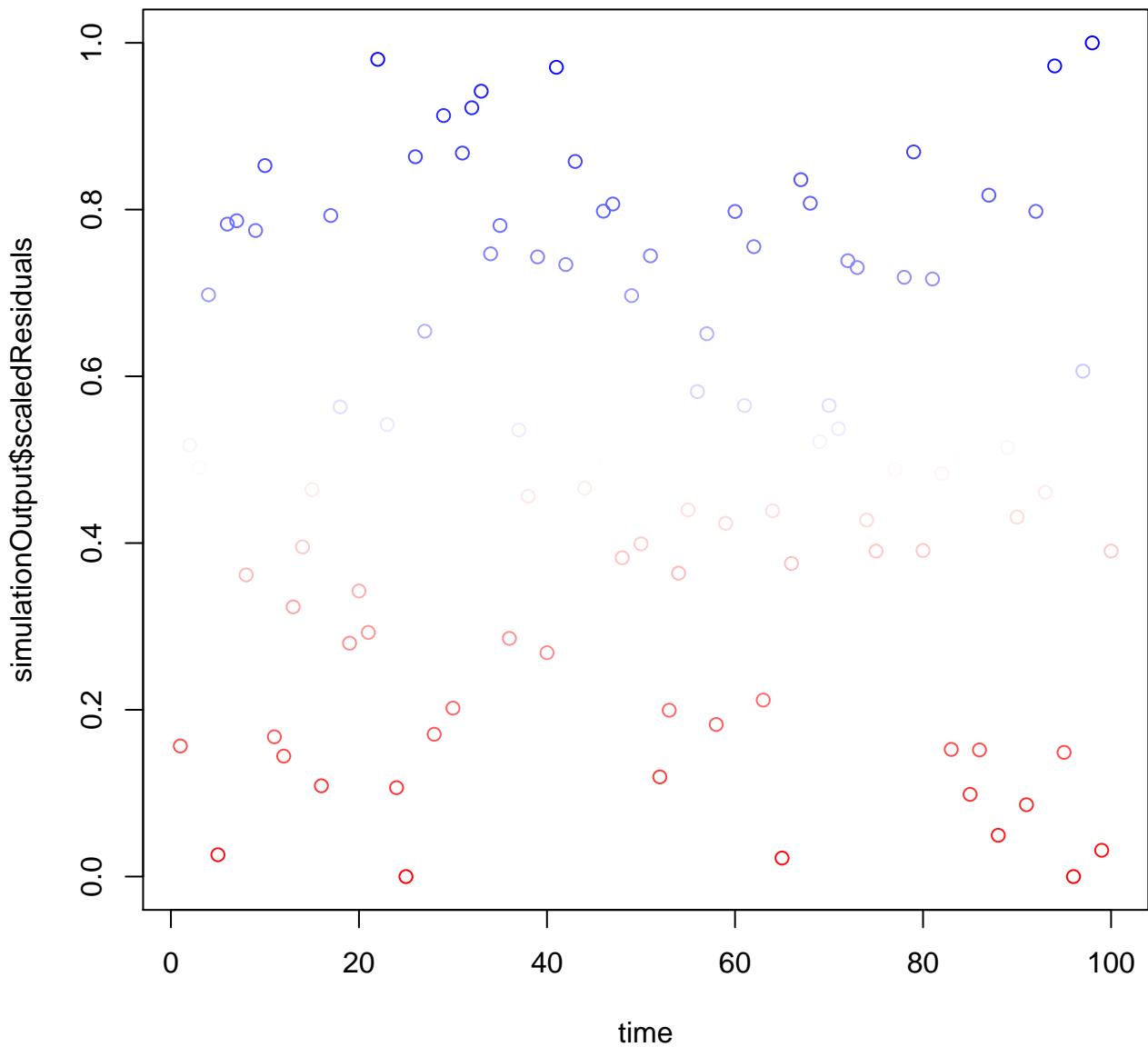
QQ plot residuals

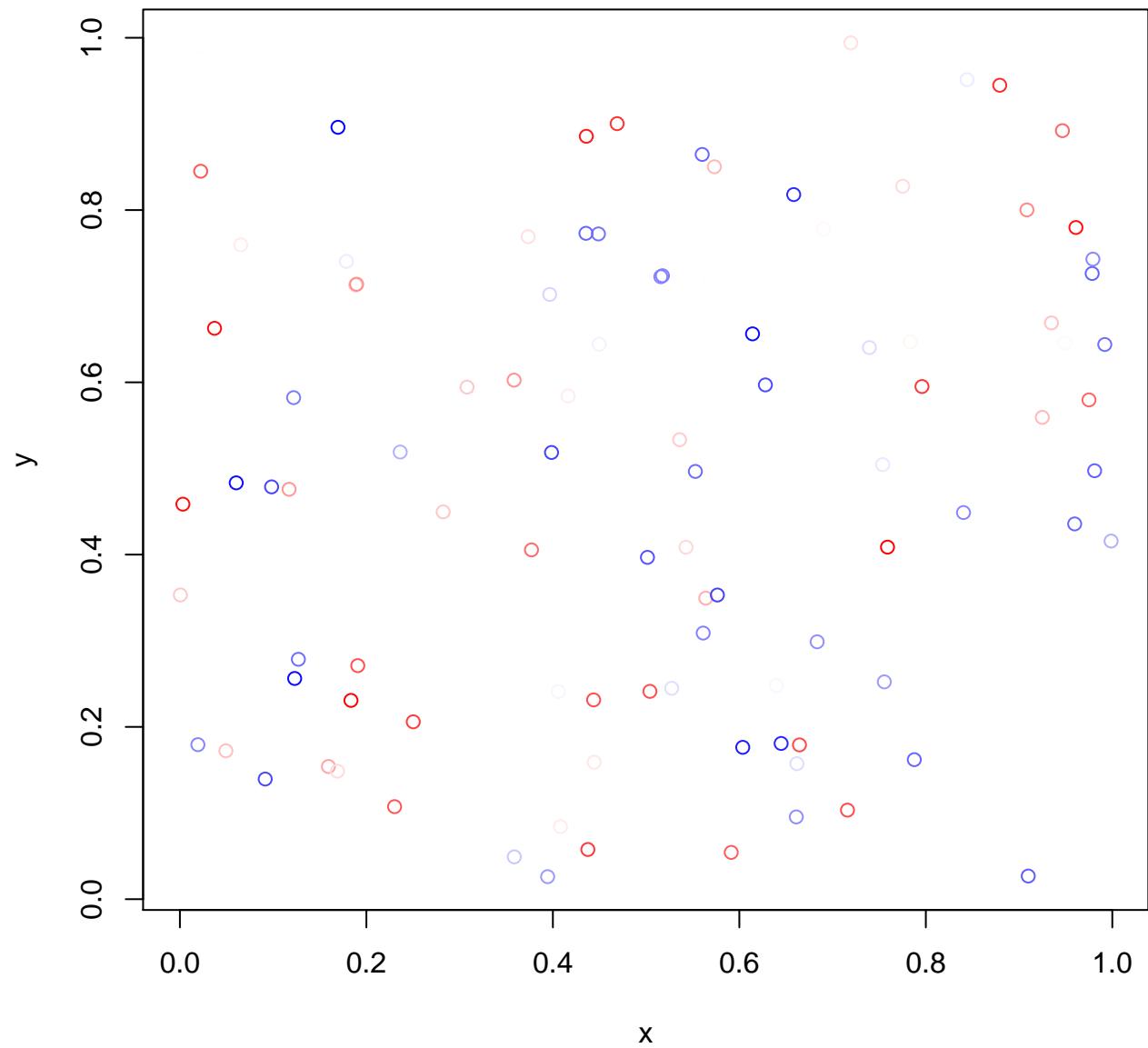


**DHARMA zero-inflation test via comparison to
expected zeros with simulation under H0 = fitted
model**

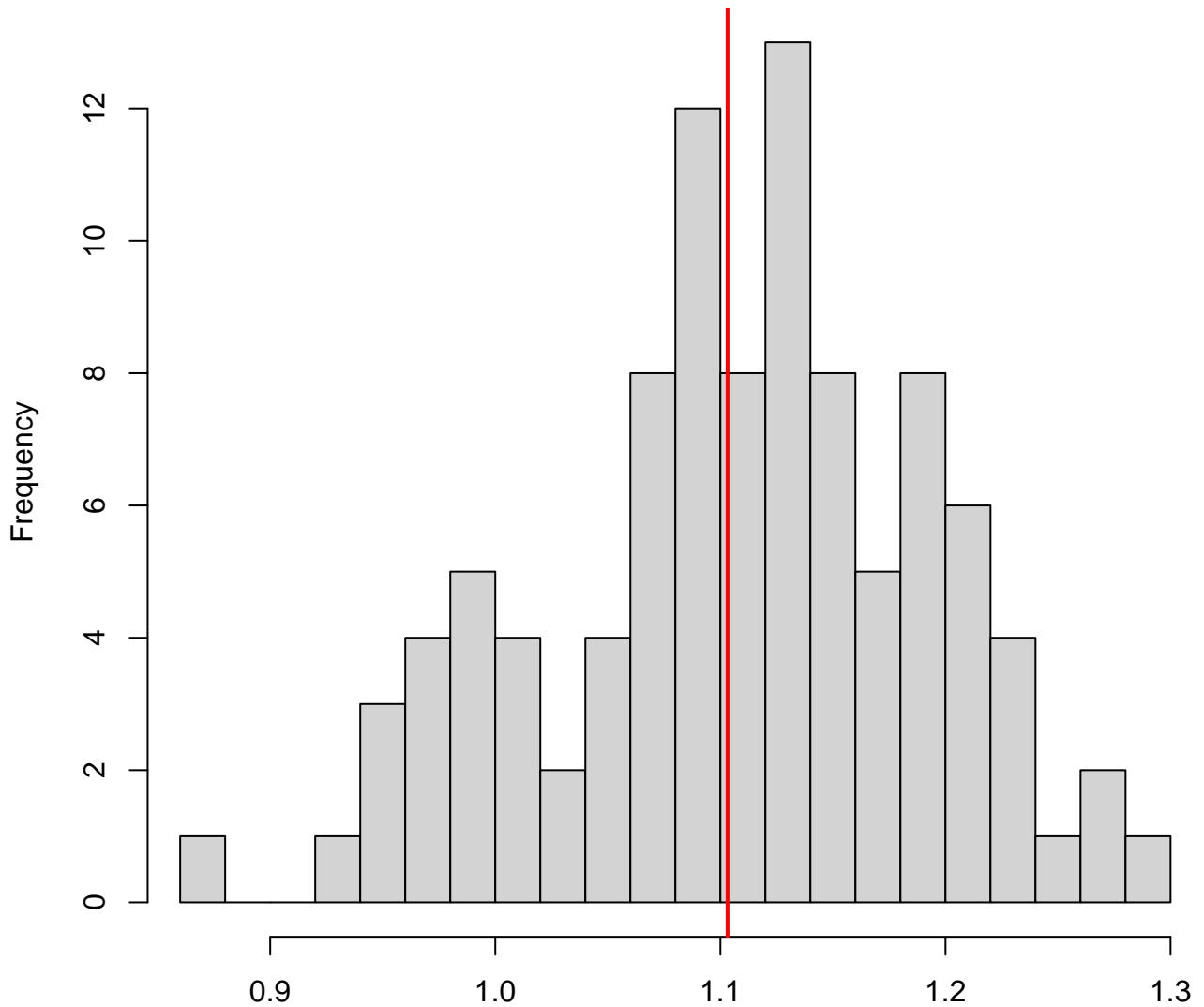


Simulated values, red line = fitted model. p-value (two.sided) = 1



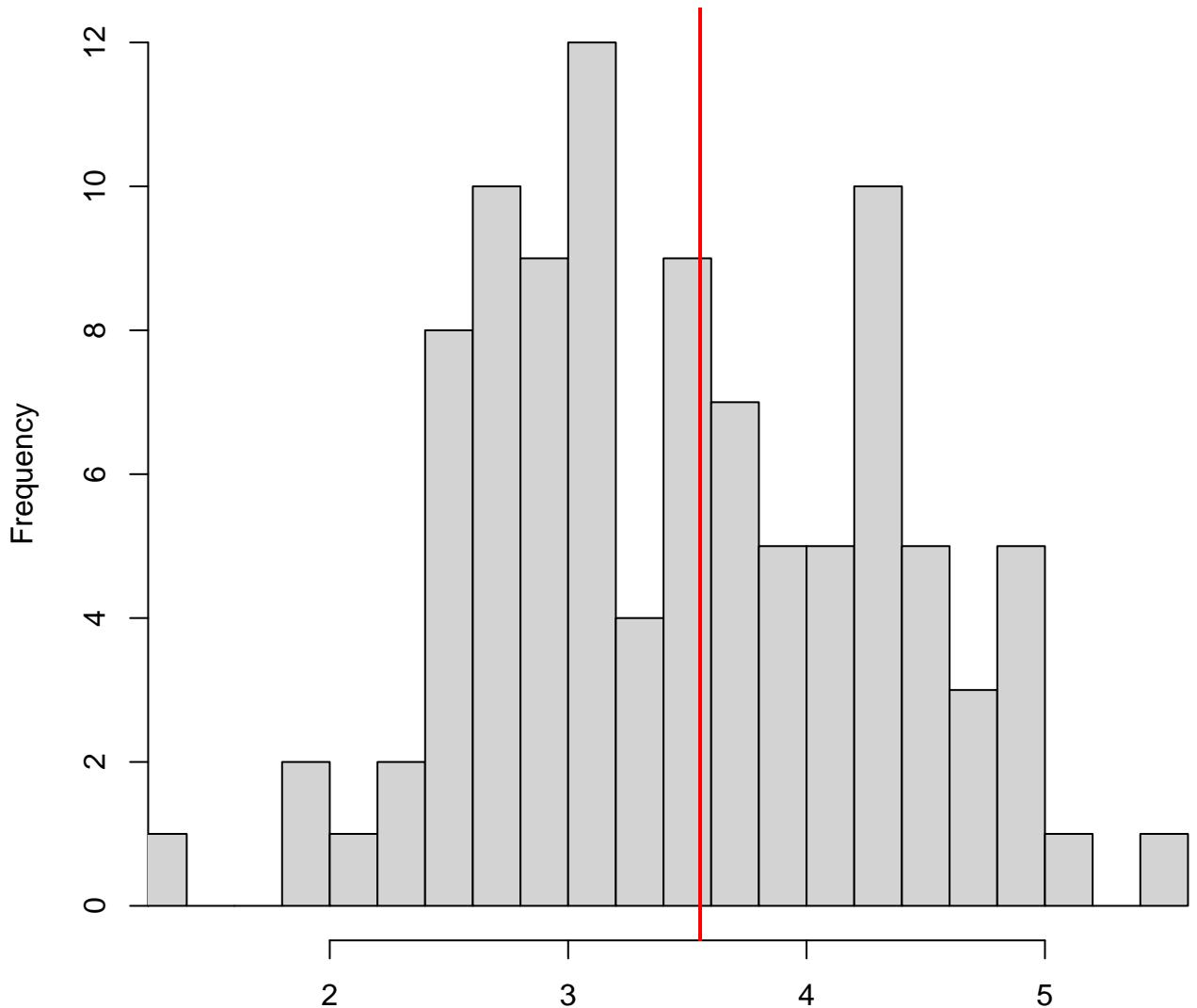


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.9

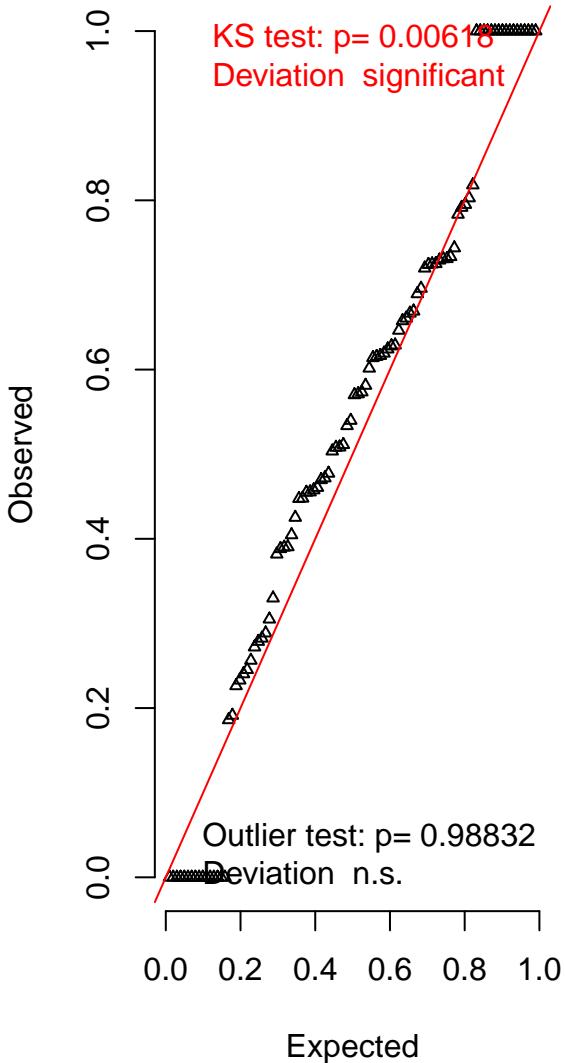
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



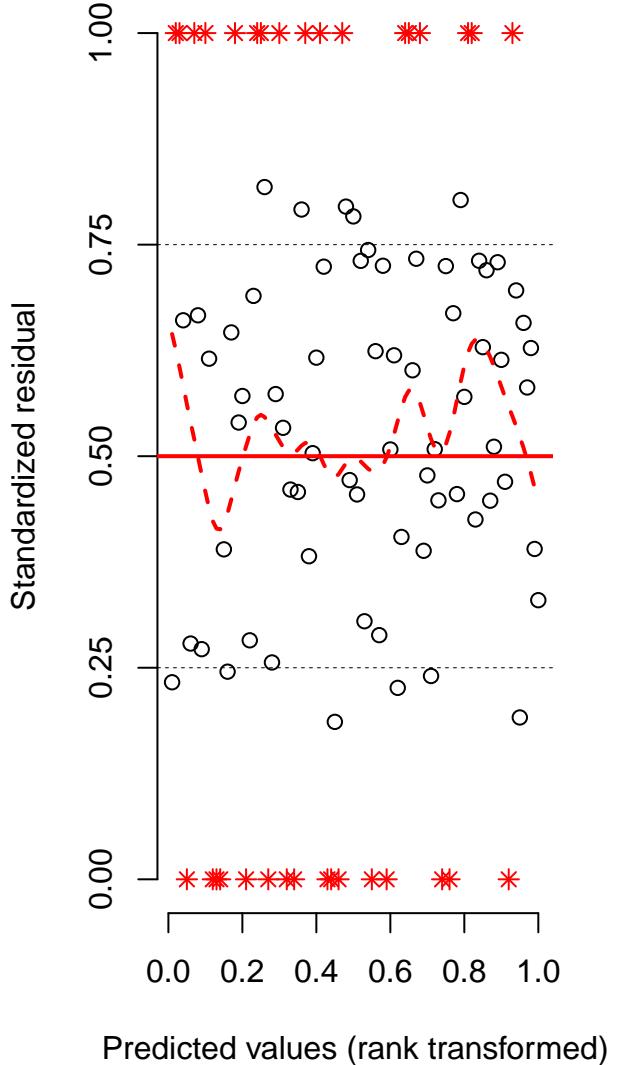
Simulated values, red line = fitted model. p-value (two.sided) = 0.9

DHARMA scaled residual plots

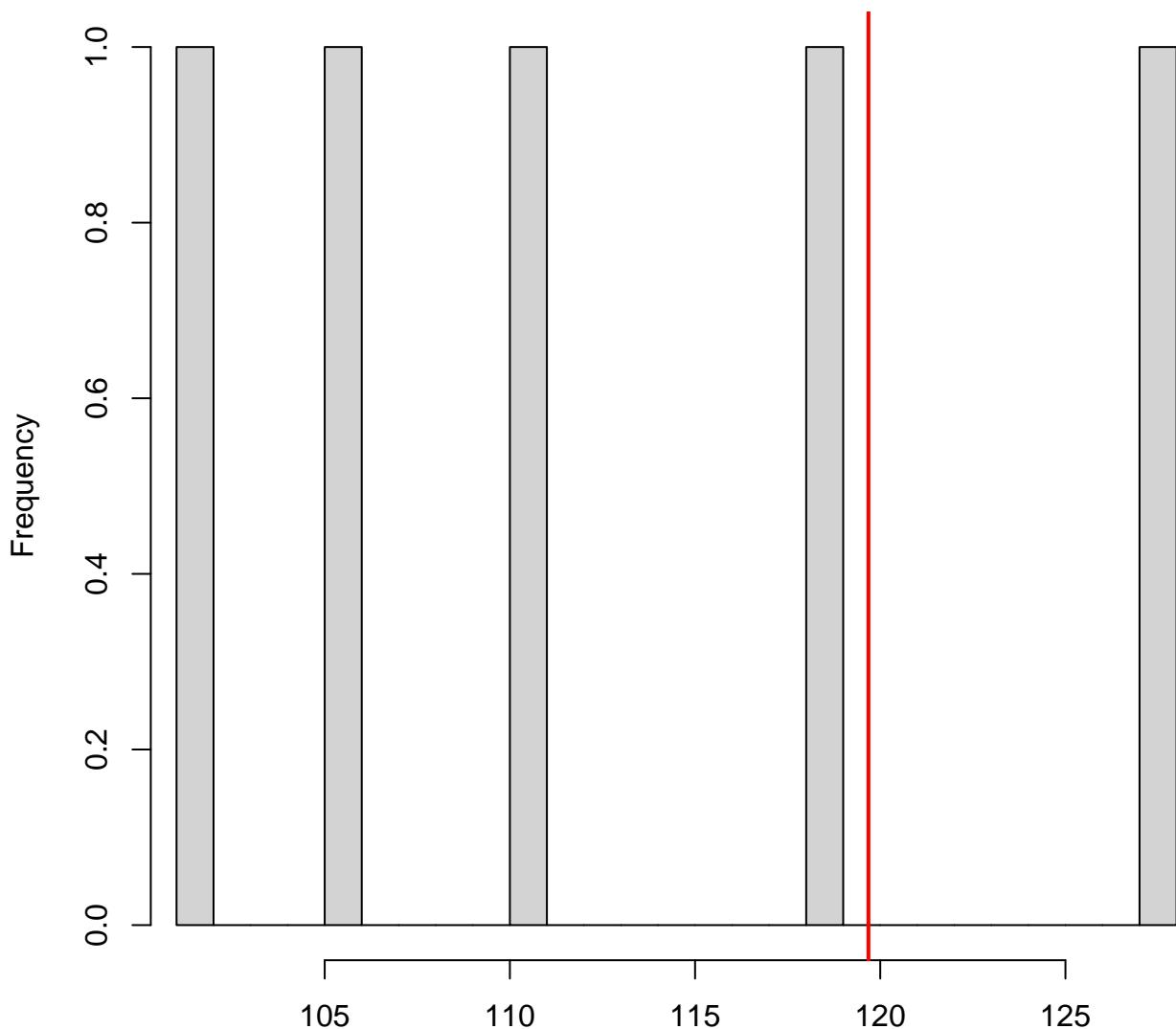
QQ plot residuals



Residual vs. predicted lines should match

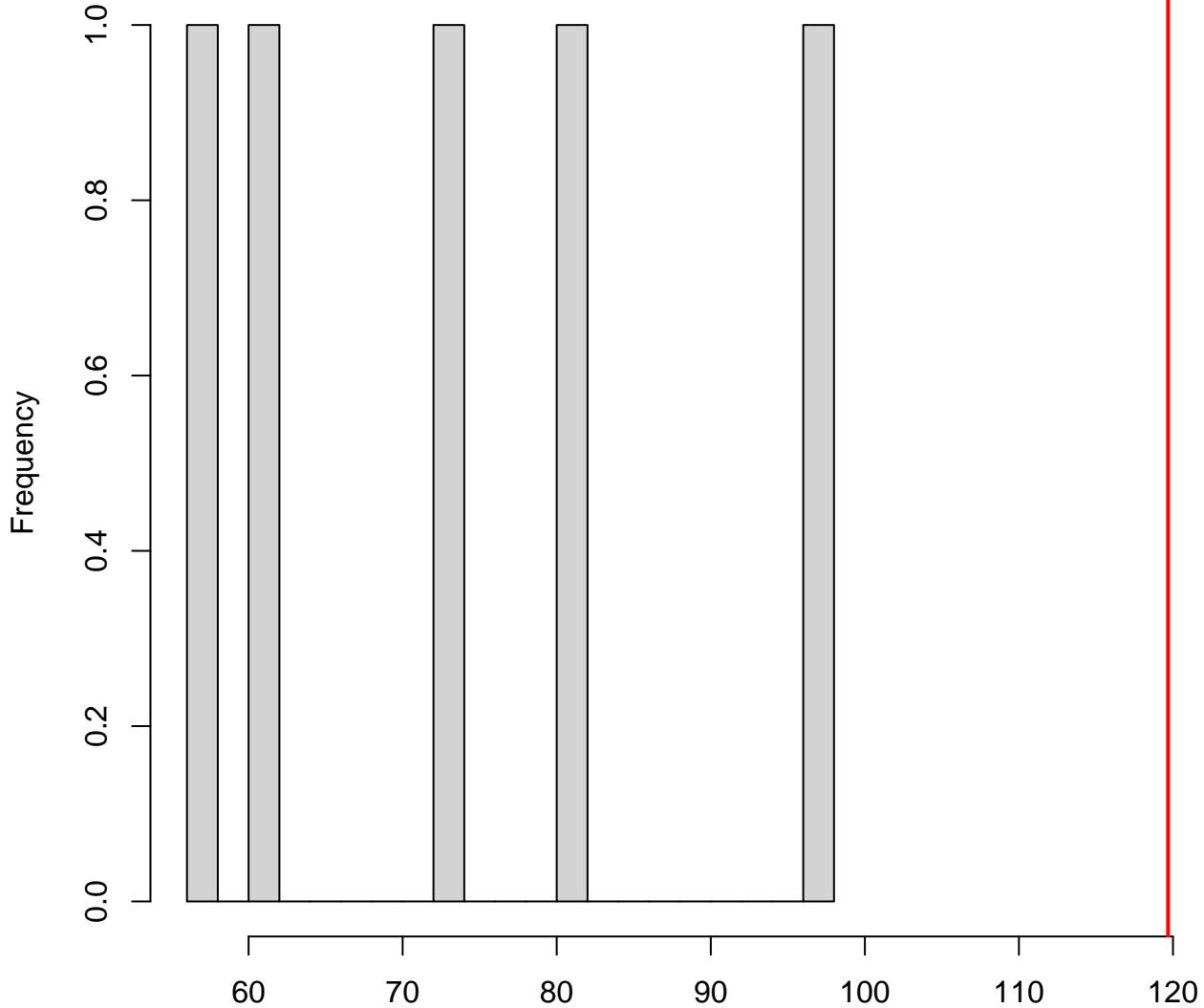


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



Simulated values, red line = fitted model. p-value (two.sided) = 0.4

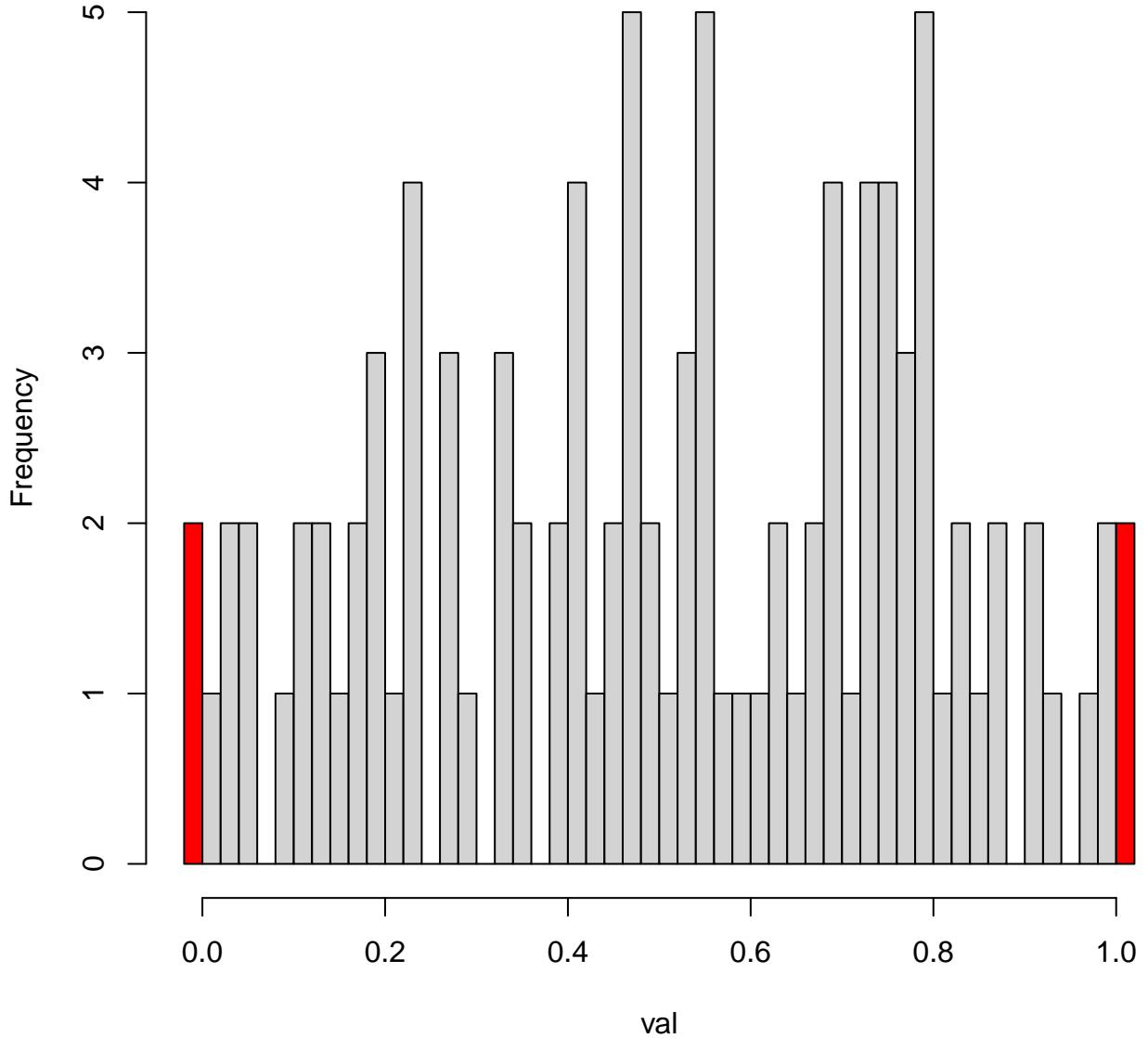
DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



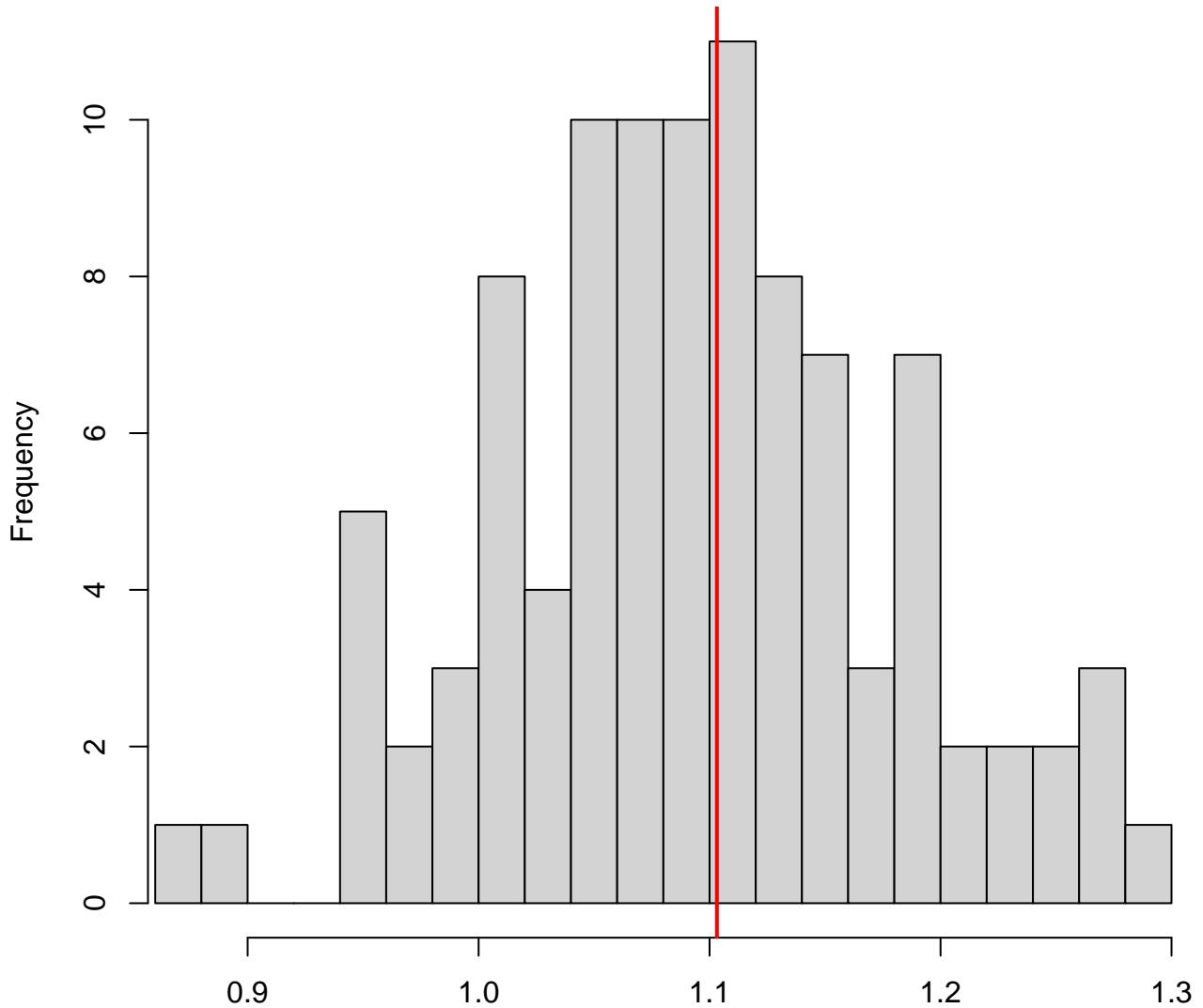
Simulated values, red line = fitted model. p-value (two.sided) = 0

Hist of DHARMA residuals

Outliers are marked red

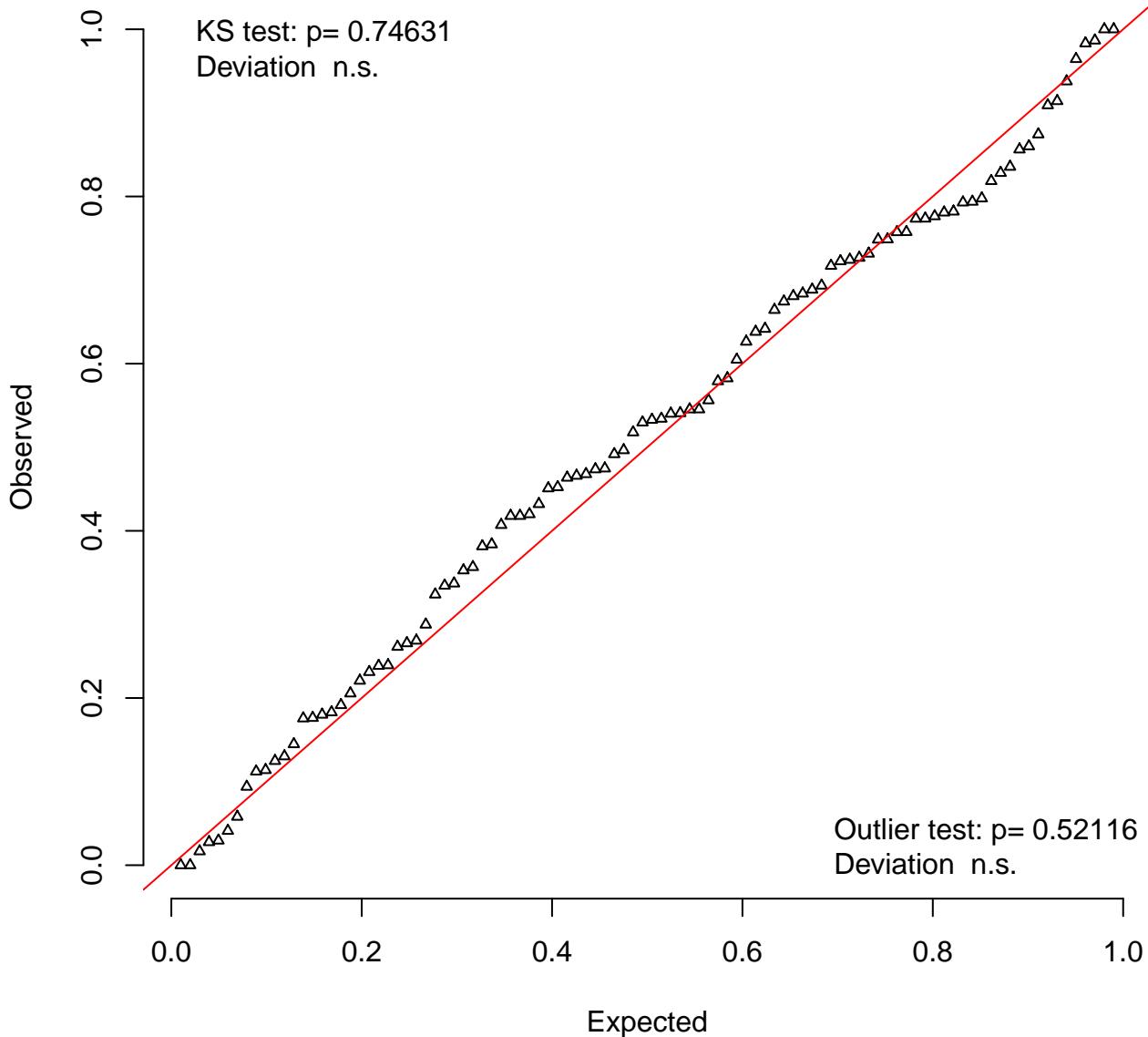


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

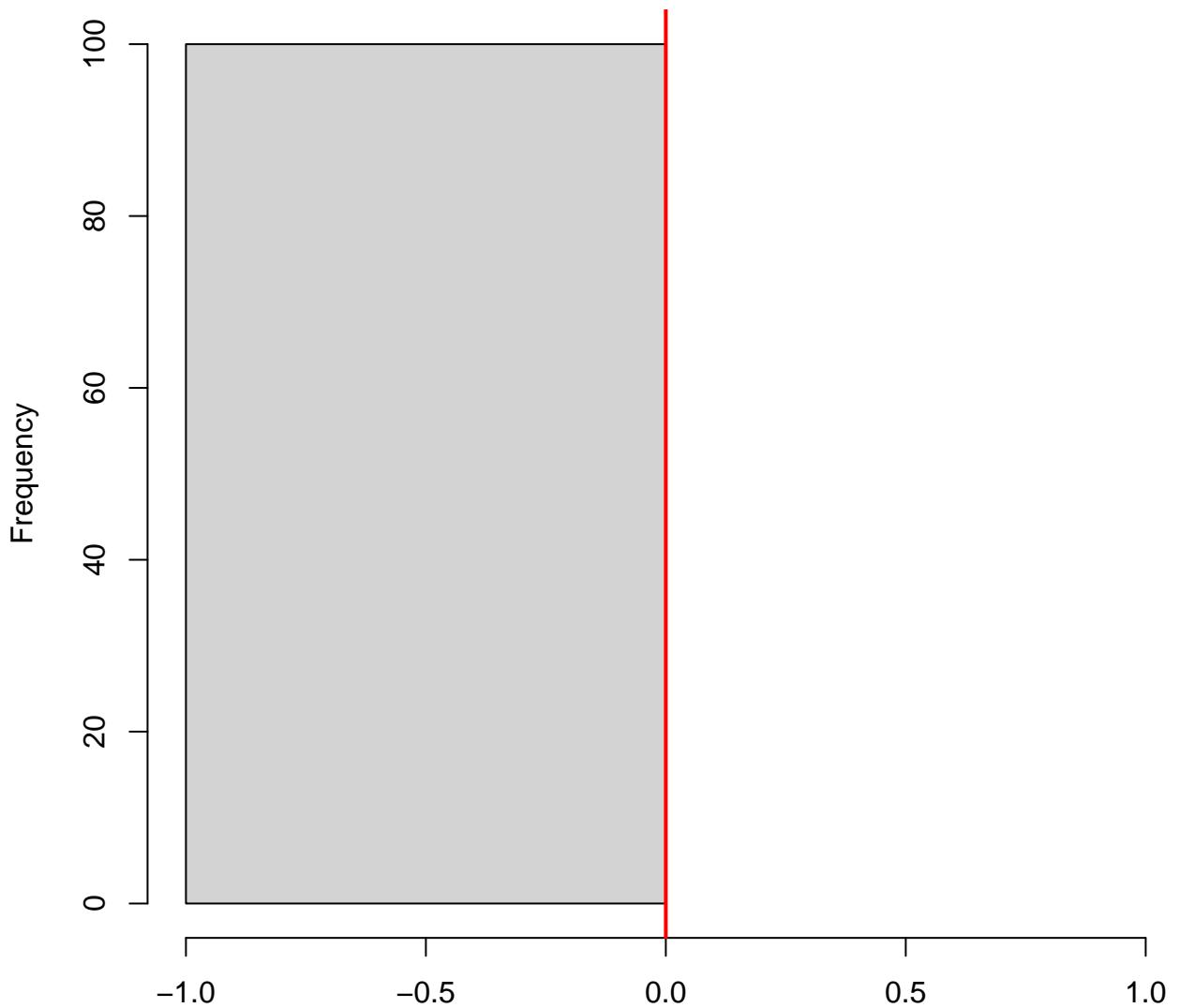


Simulated values, red line = fitted model. p-value (two.sided) = 0.86

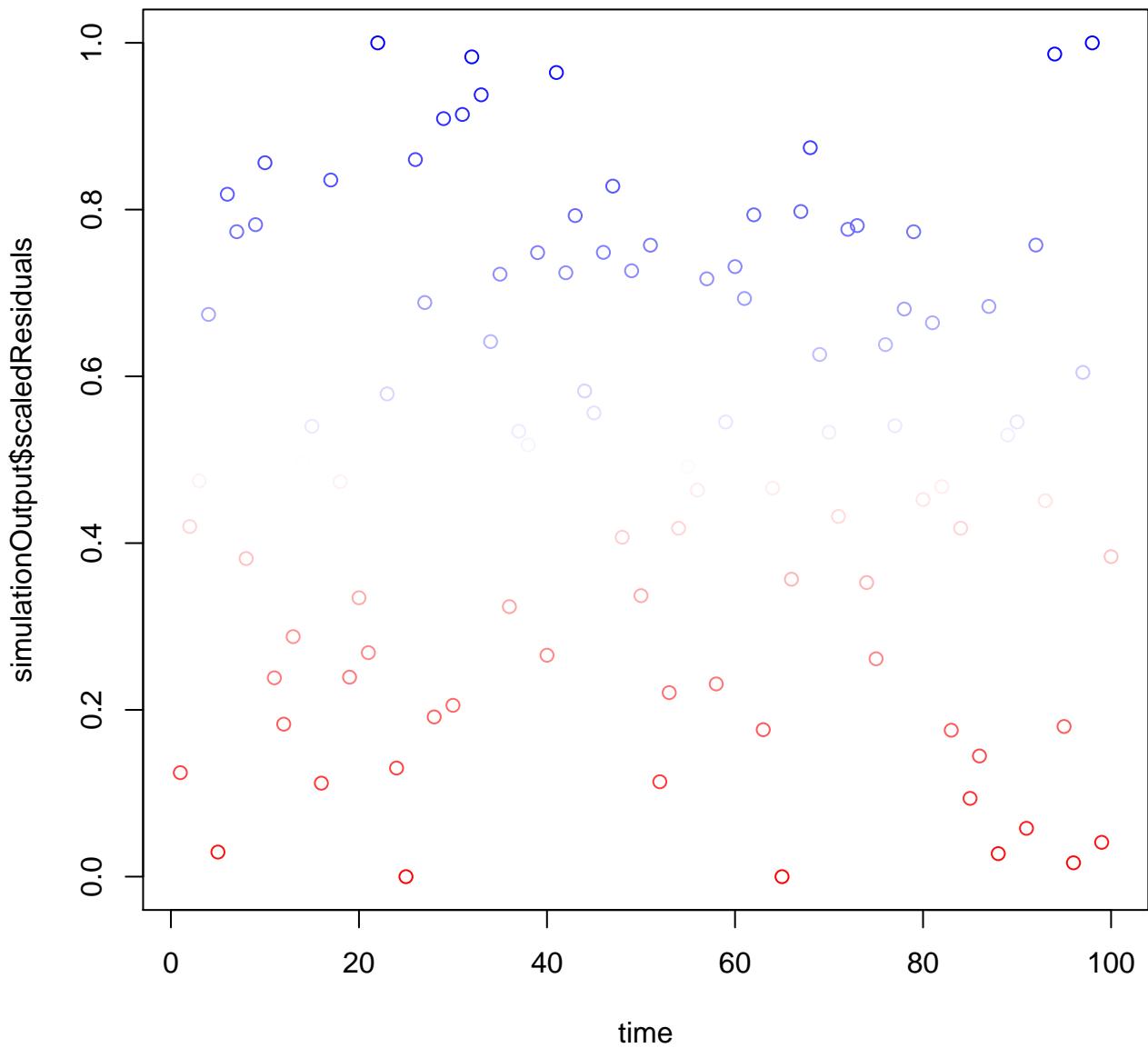
QQ plot residuals

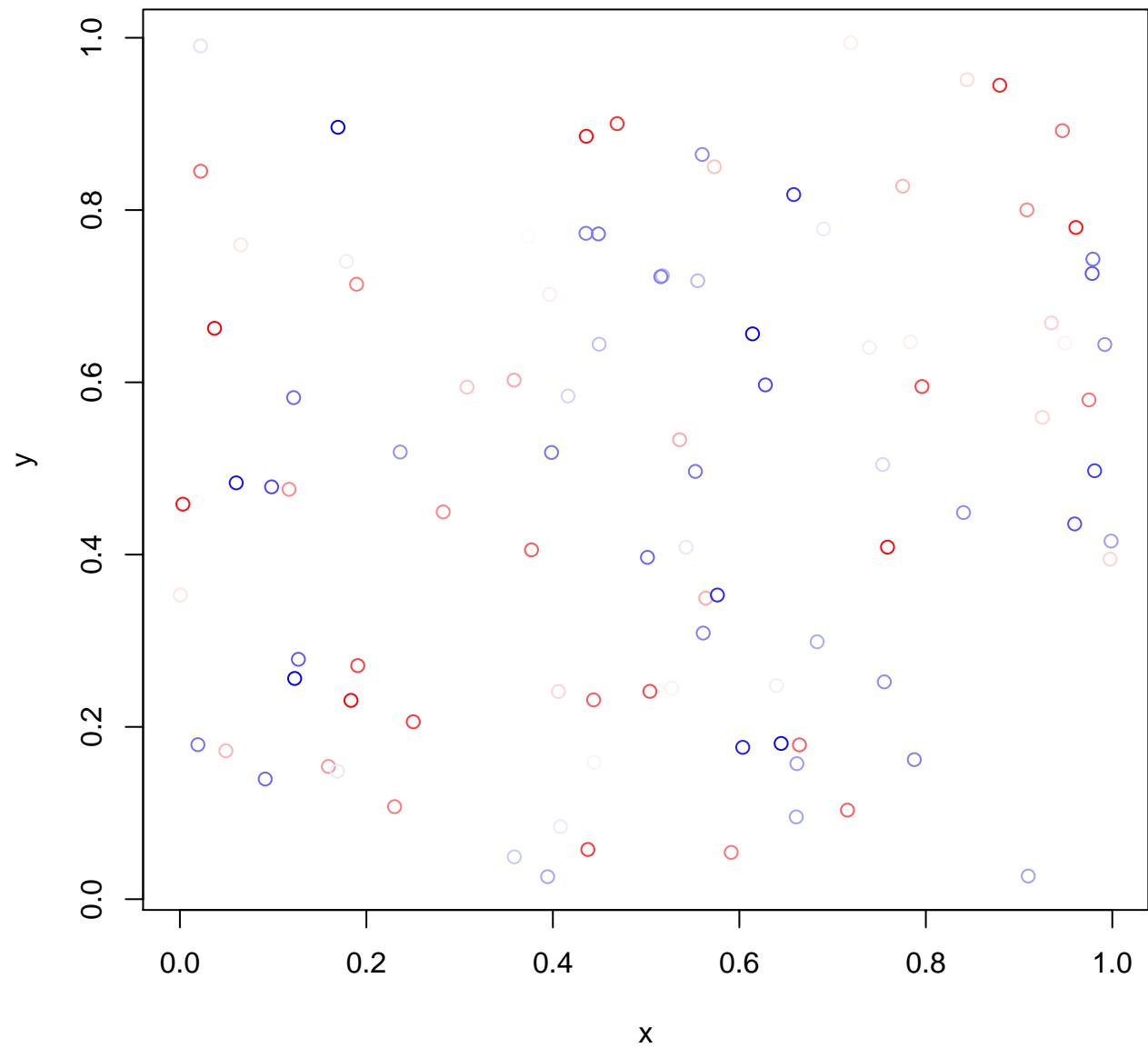


**DHARMA zero-inflation test via comparison to
expected zeros with simulation under H0 = fitted
model**

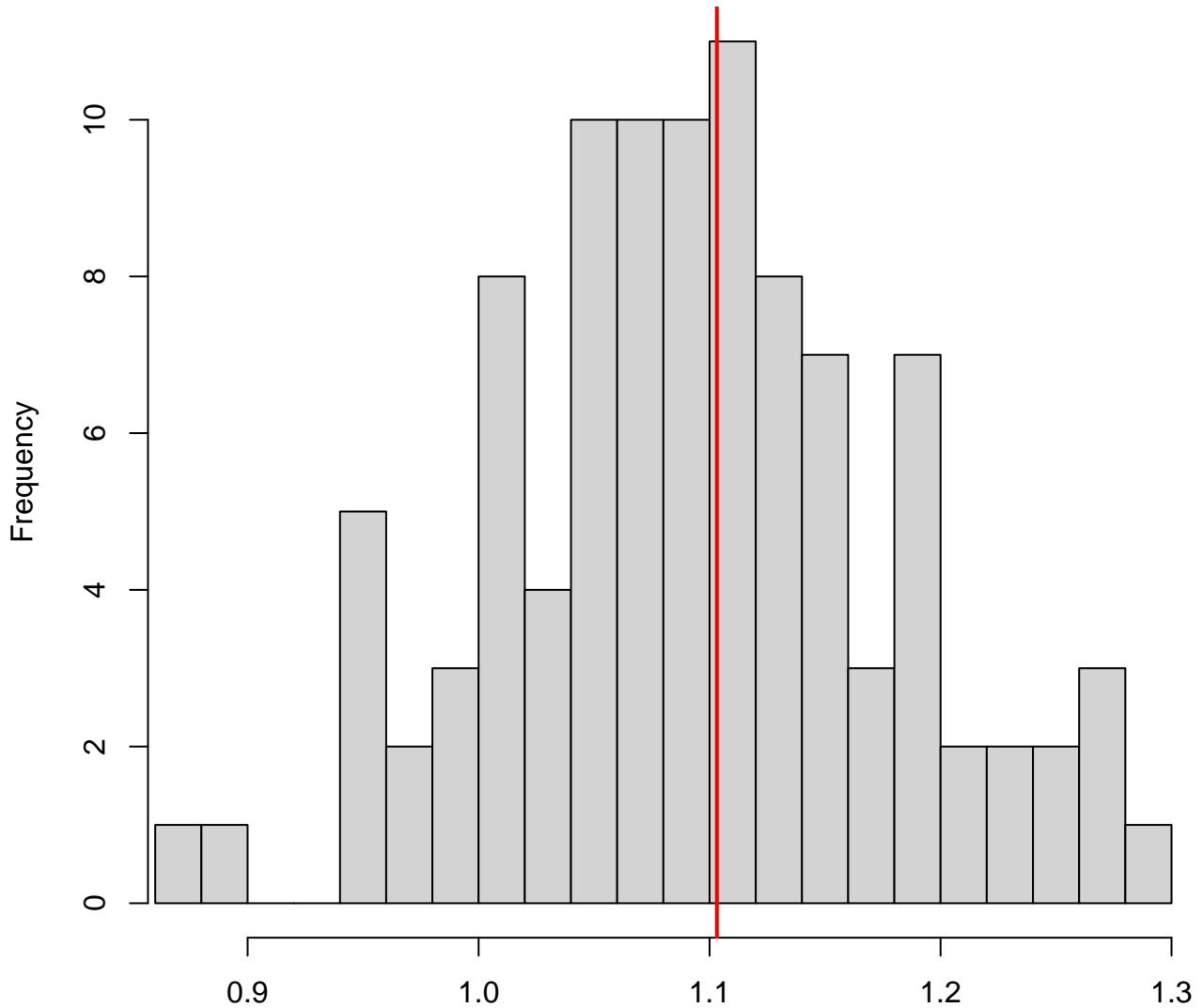


Simulated values, red line = fitted model. p-value (two.sided) = 1



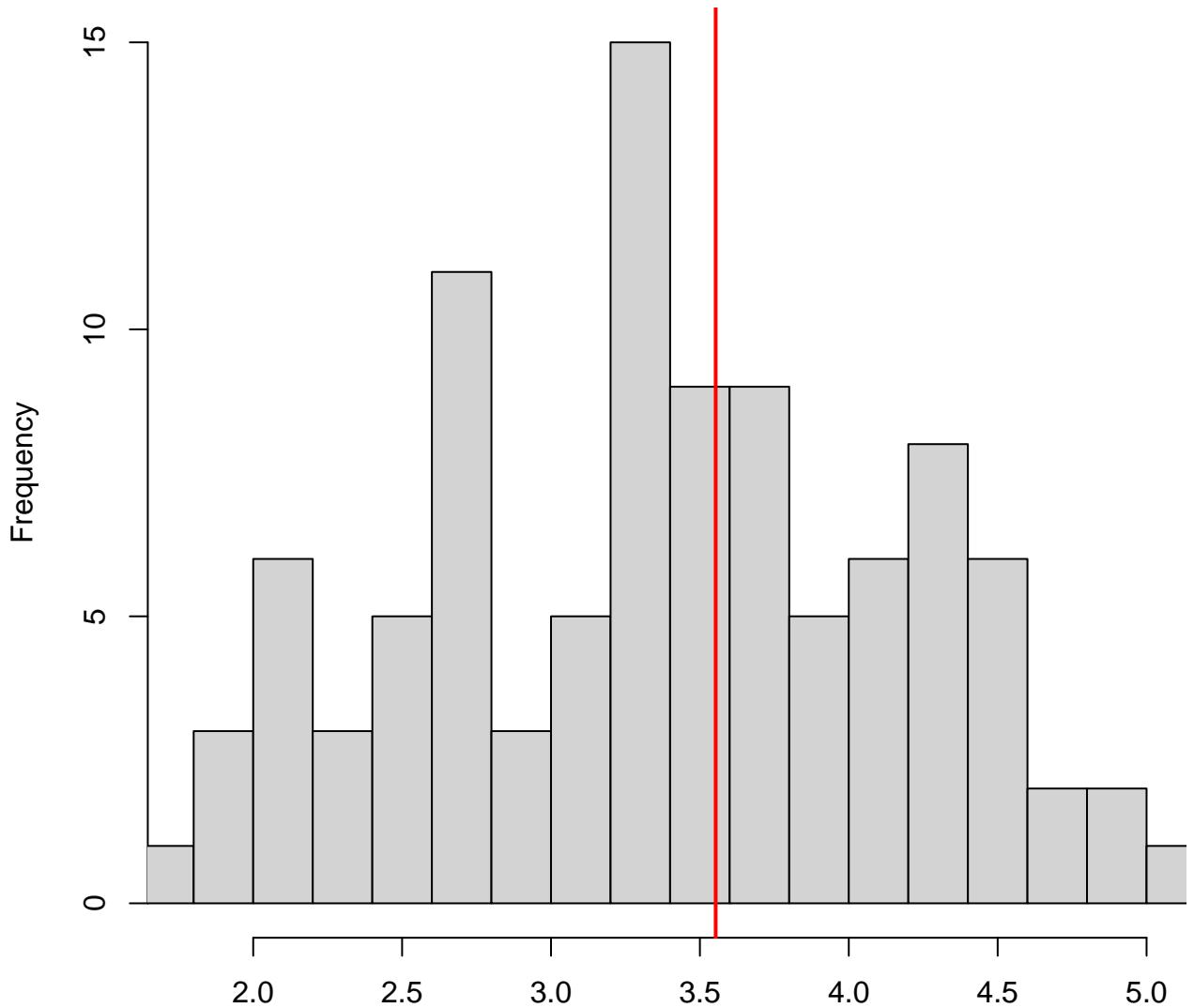


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.86

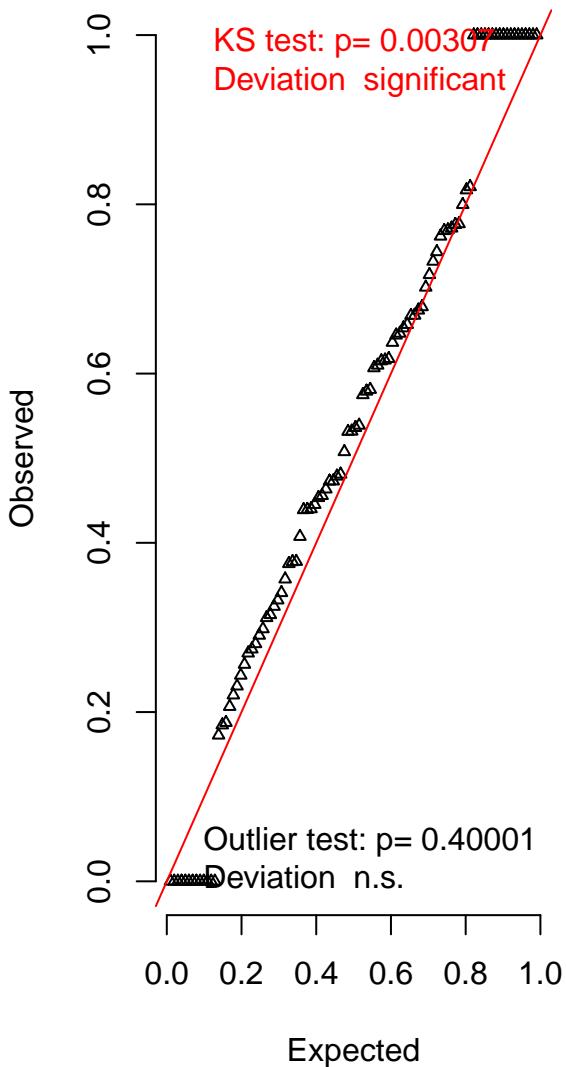
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



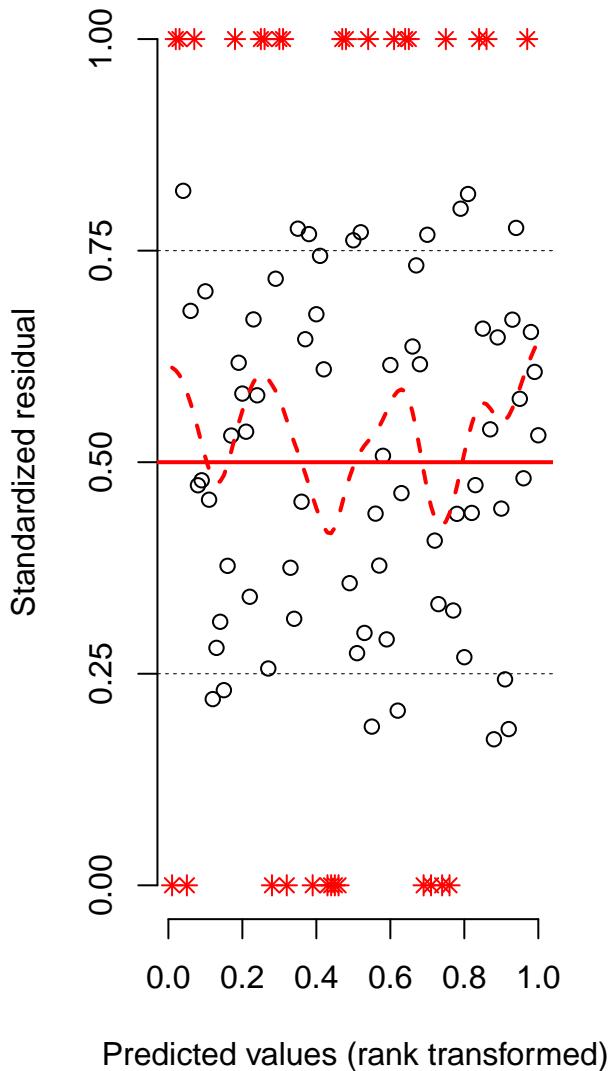
Simulated values, red line = fitted model. p-value (two.sided) = 0.8

DHARMA scaled residual plots

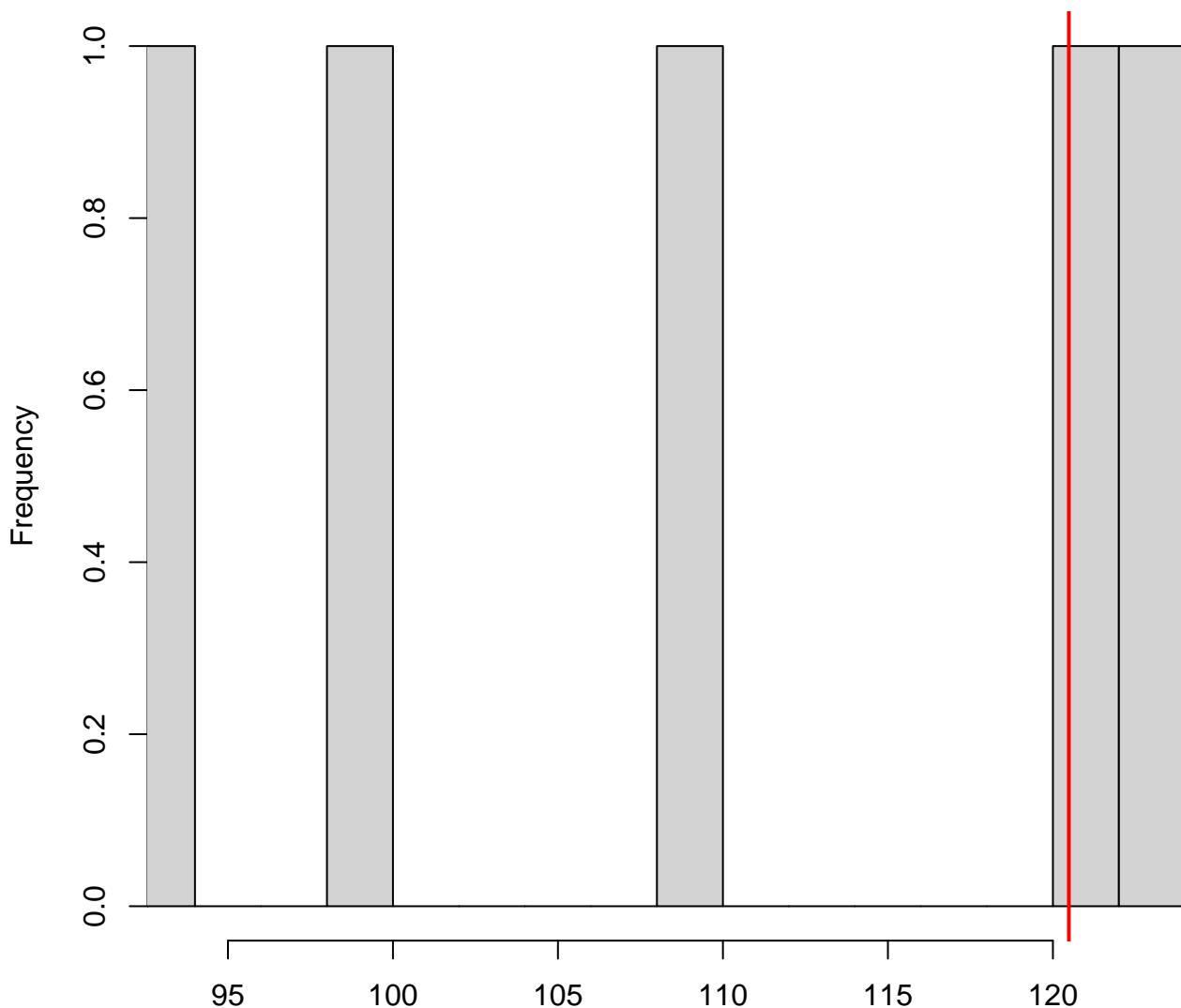
QQ plot residuals



Residual vs. predicted lines should match

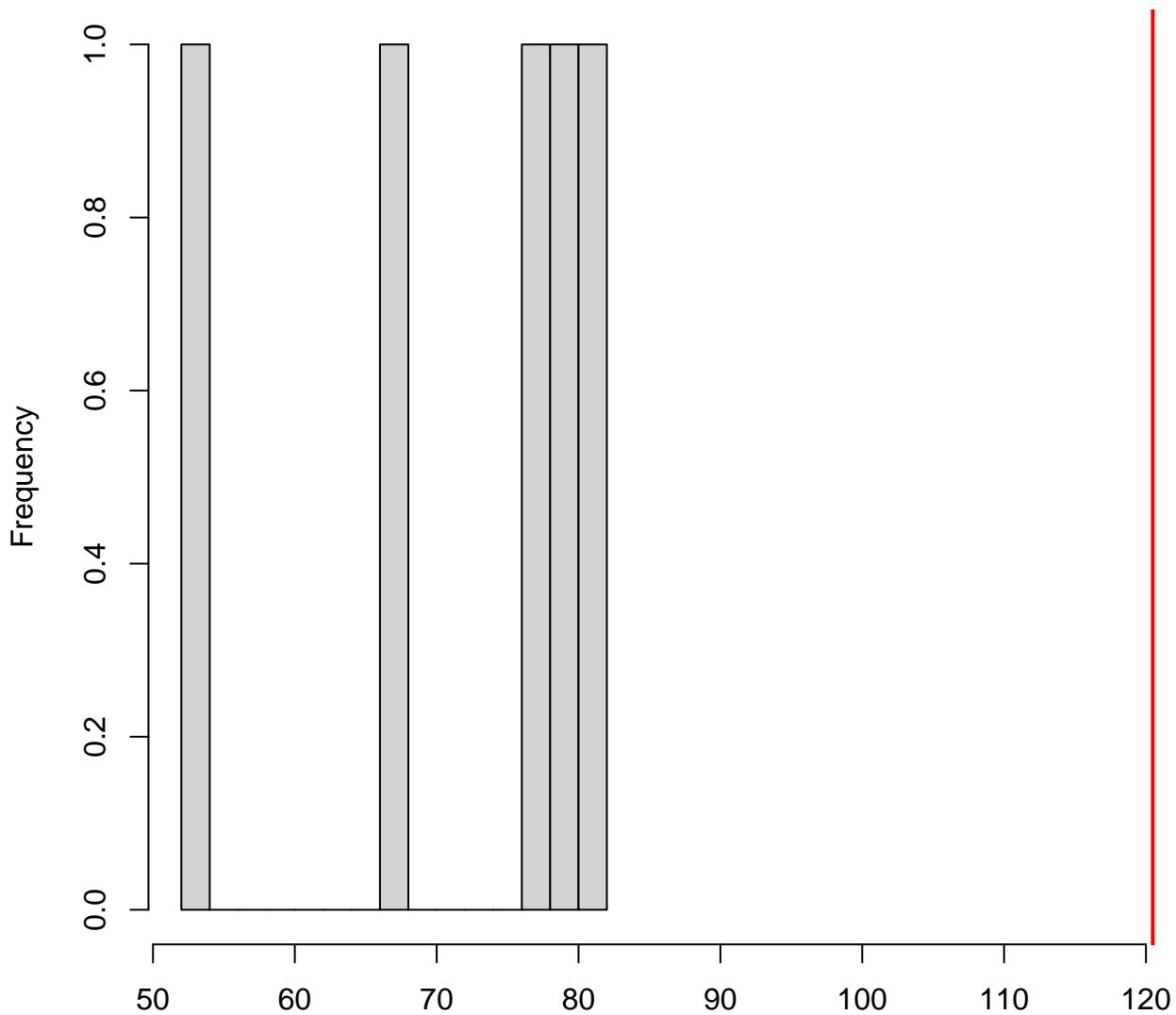


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



Simulated values, red line = fitted model. p-value (two.sided) = 0.8

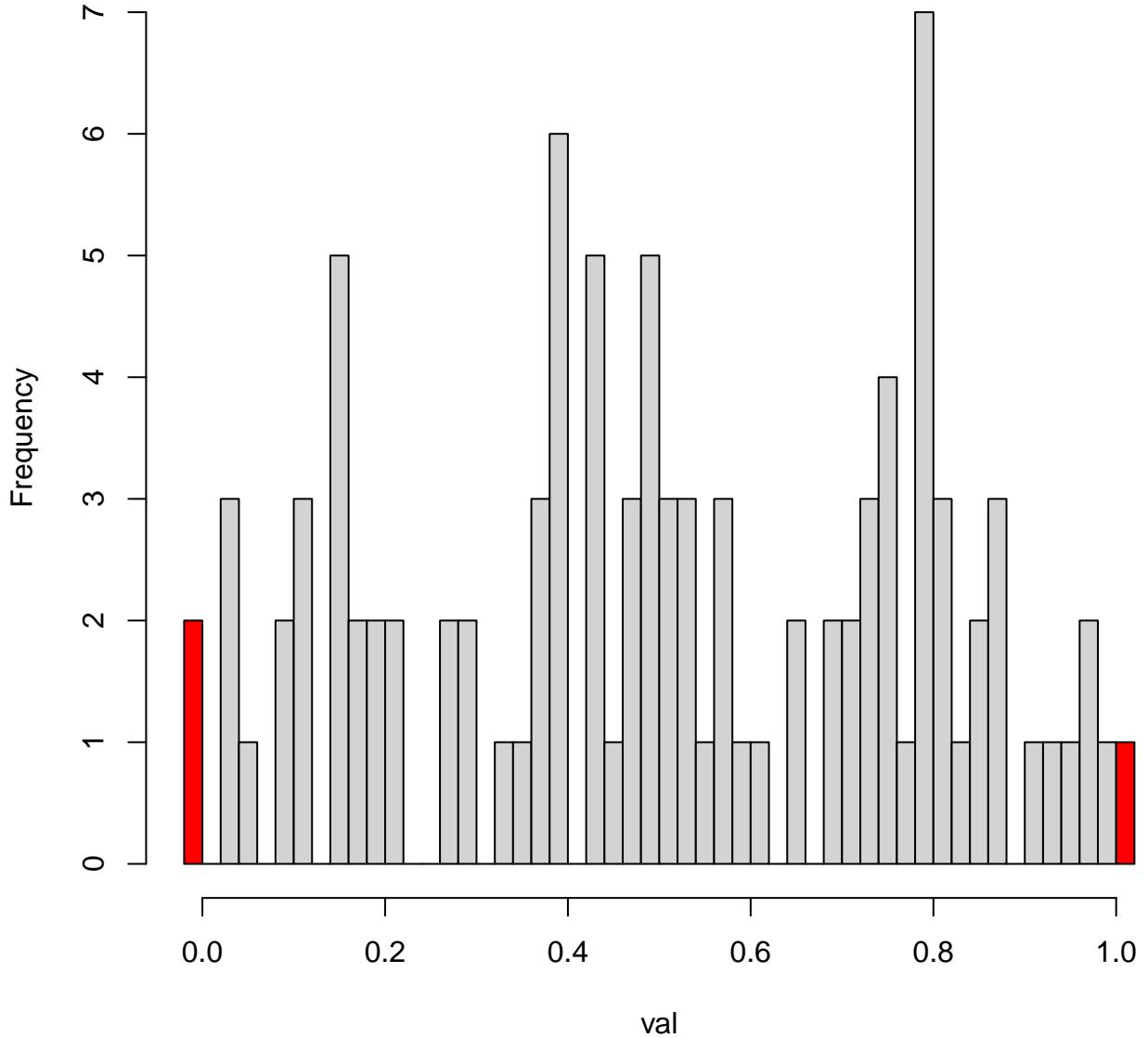
DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



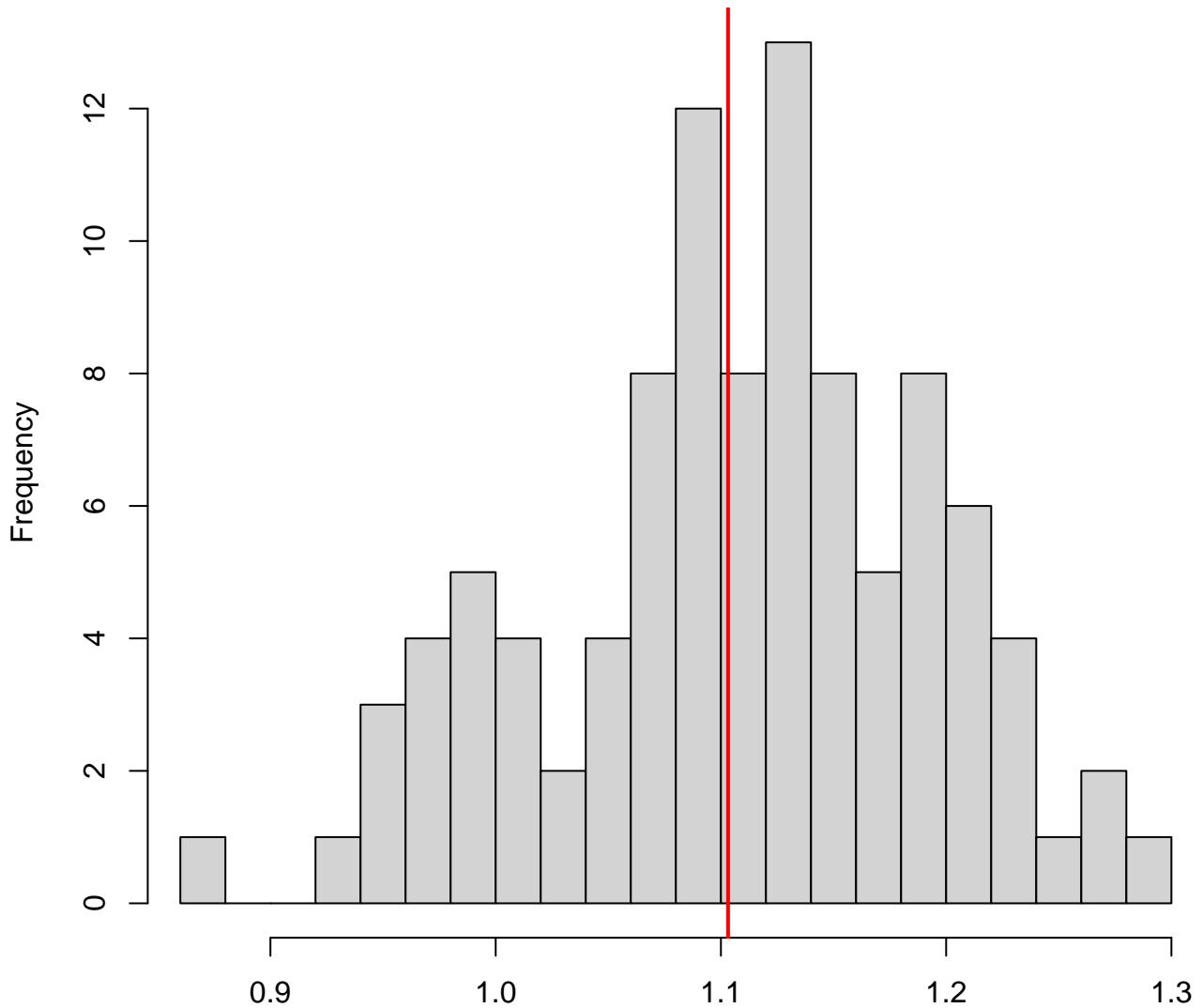
Simulated values, red line = fitted model. p-value (two.sided) = 0

Hist of DHARMA residuals

Outliers are marked red

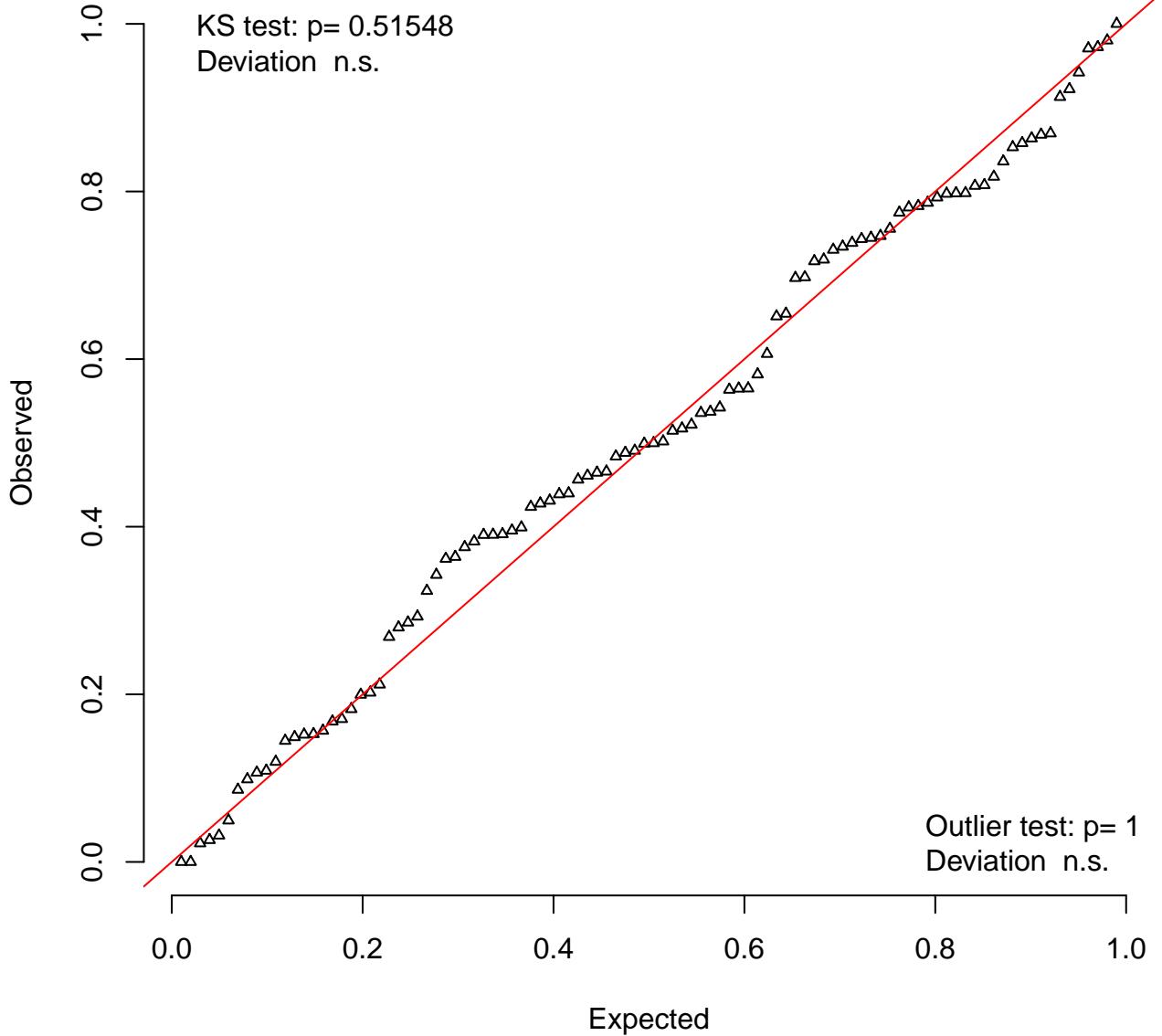


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

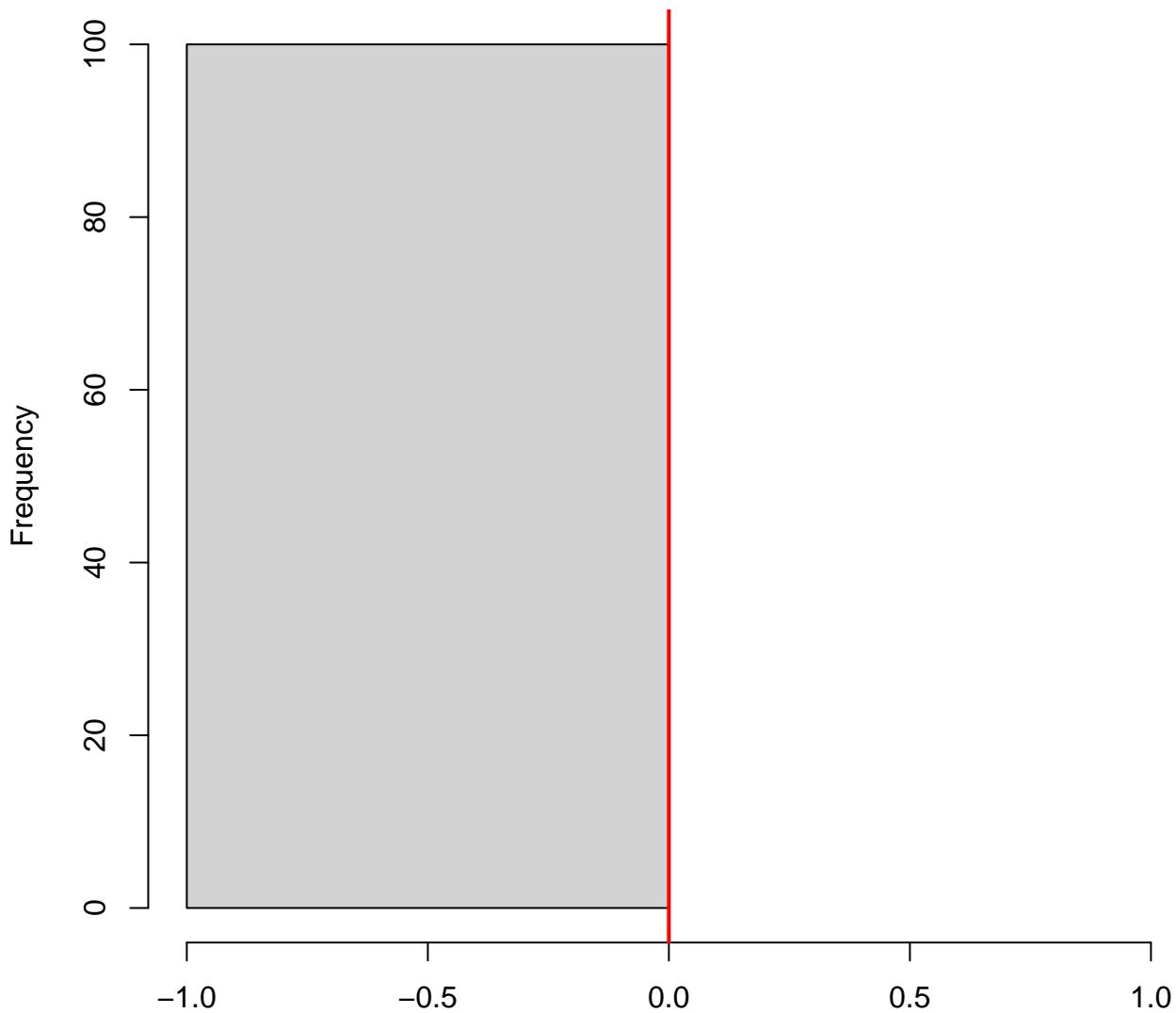


Simulated values, red line = fitted model. p-value (two.sided) = 0.9

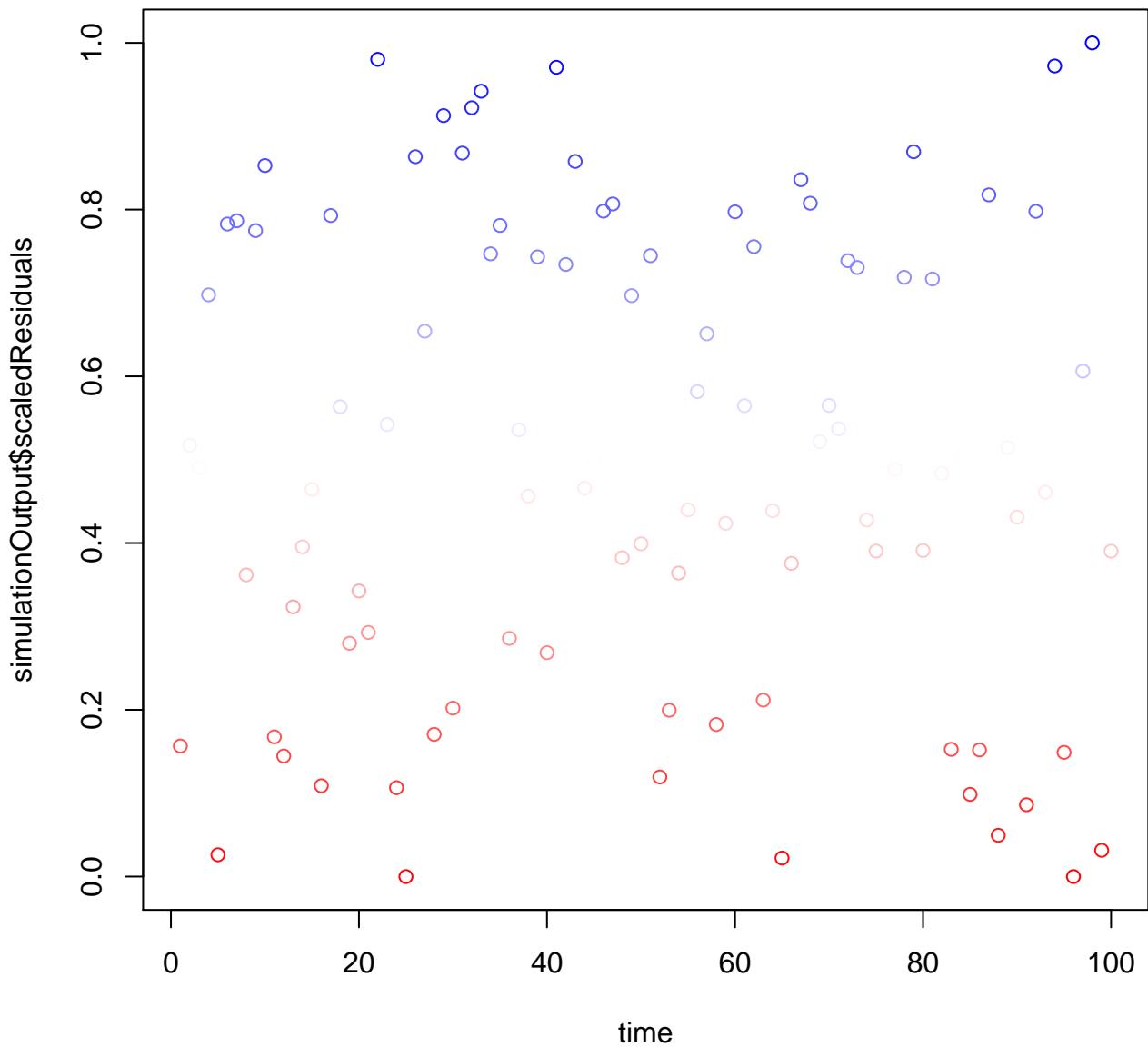
QQ plot residuals

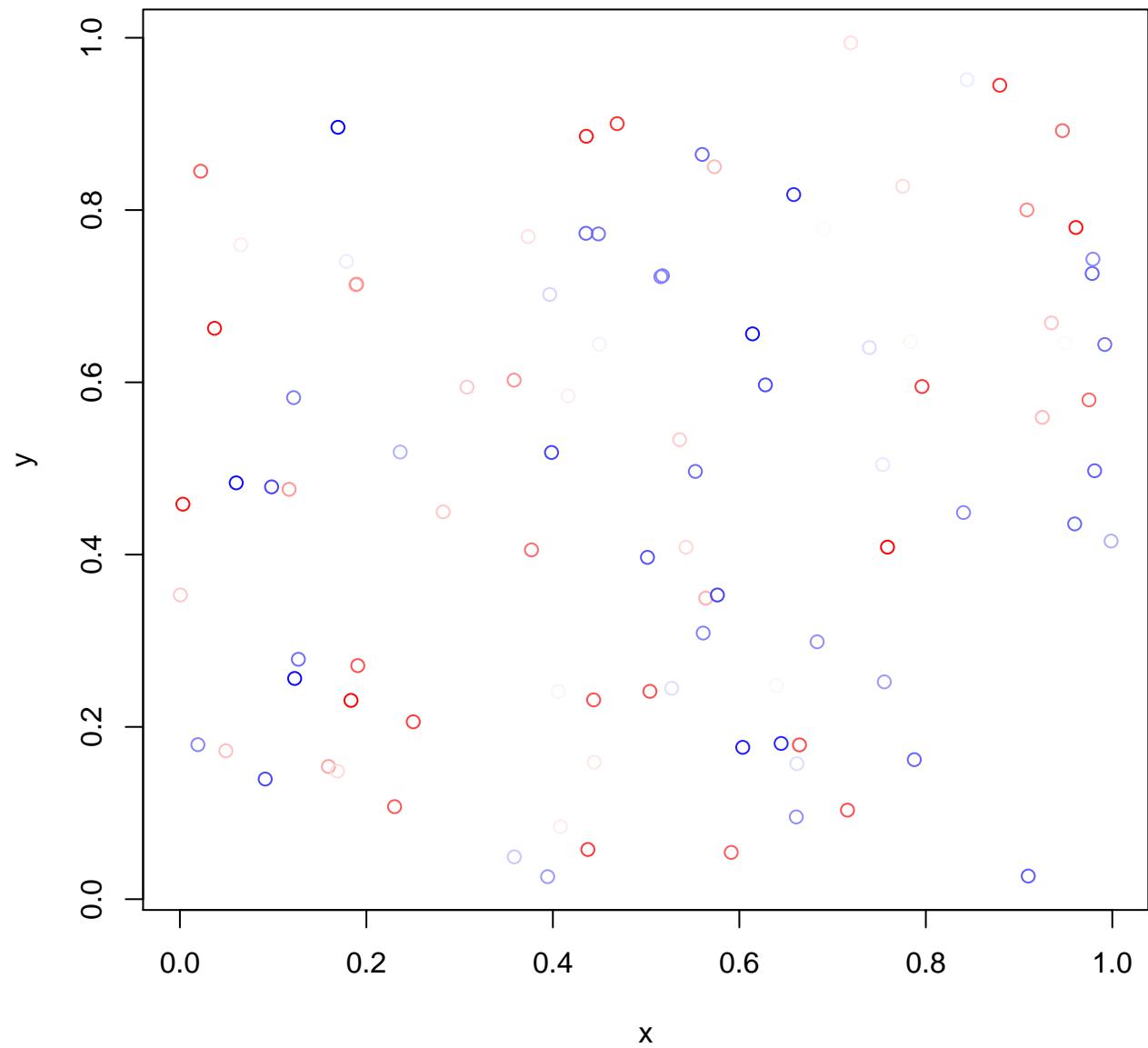


**DHARMA zero-inflation test via comparison to
expected zeros with simulation under H0 = fitted
model**

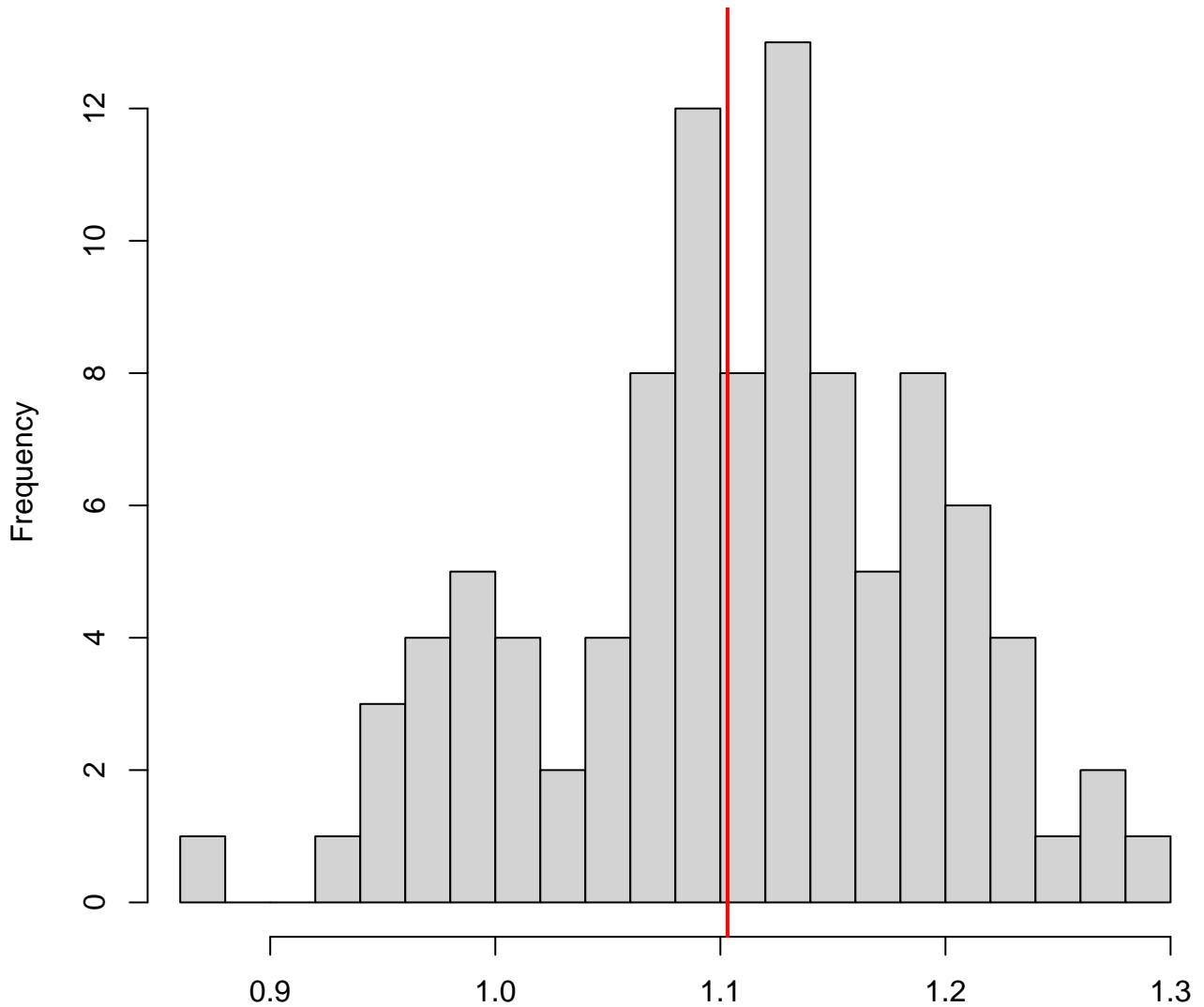


Simulated values, red line = fitted model. p-value (two.sided) = 1



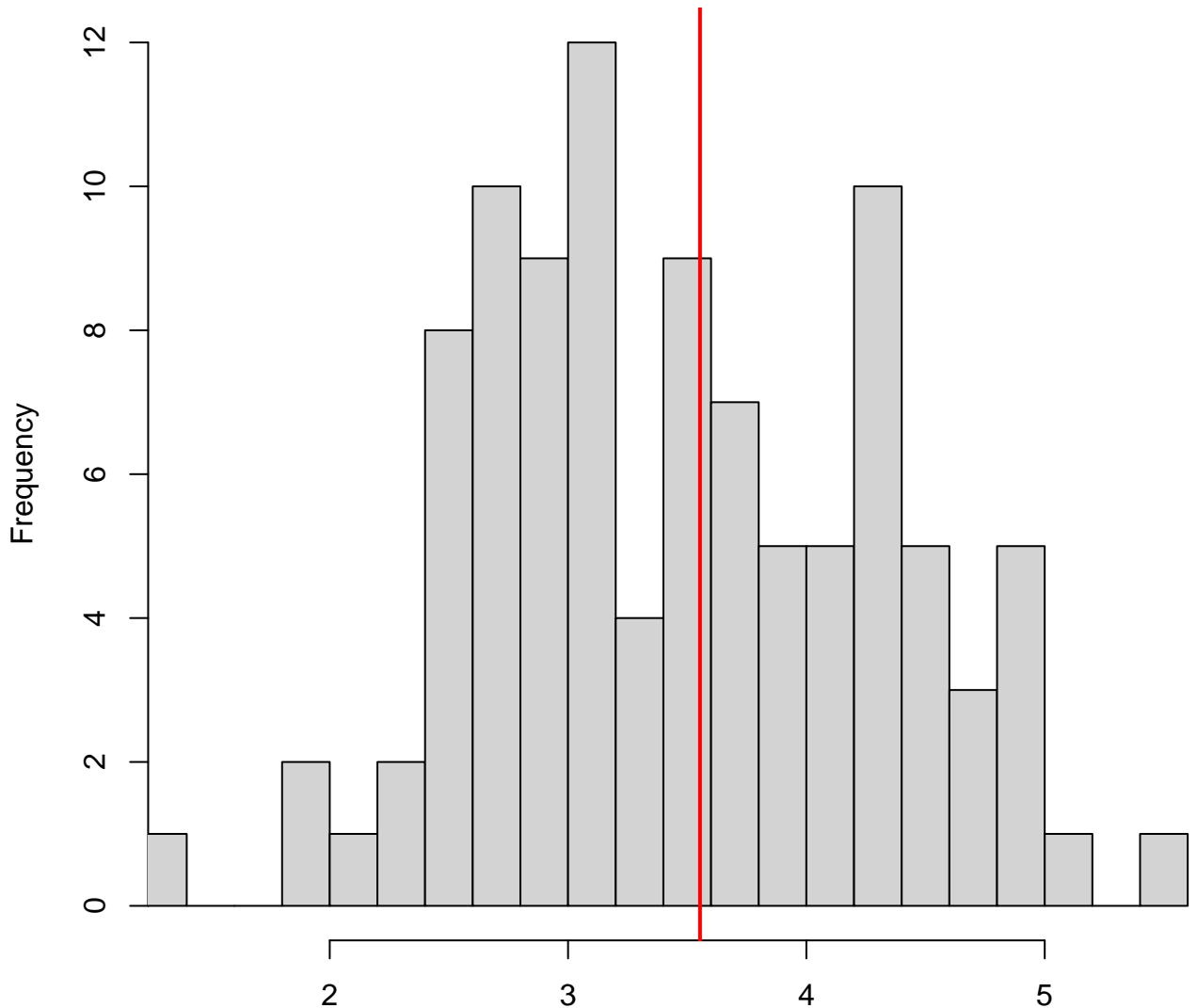


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.9

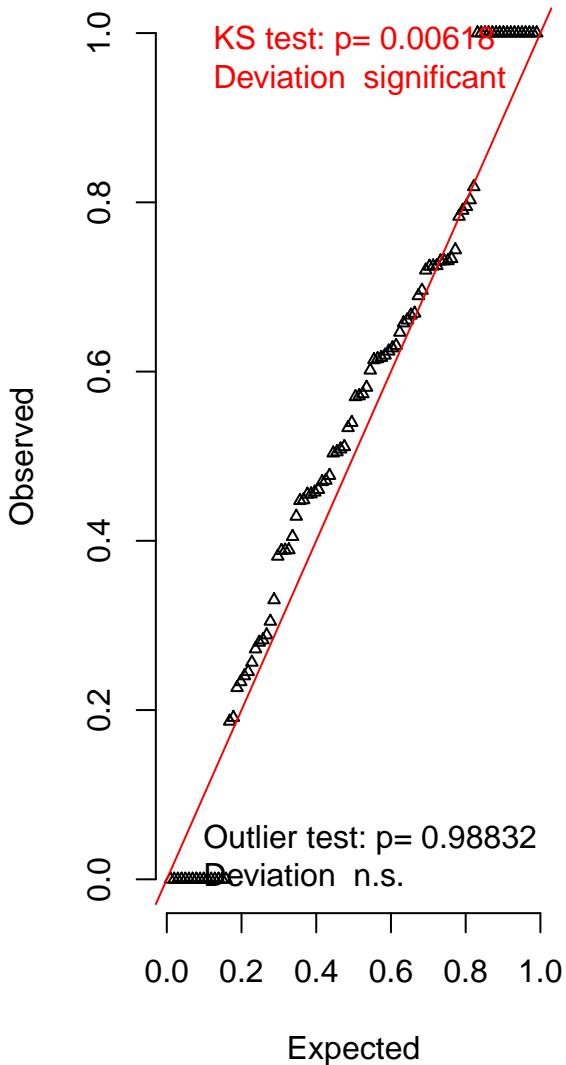
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



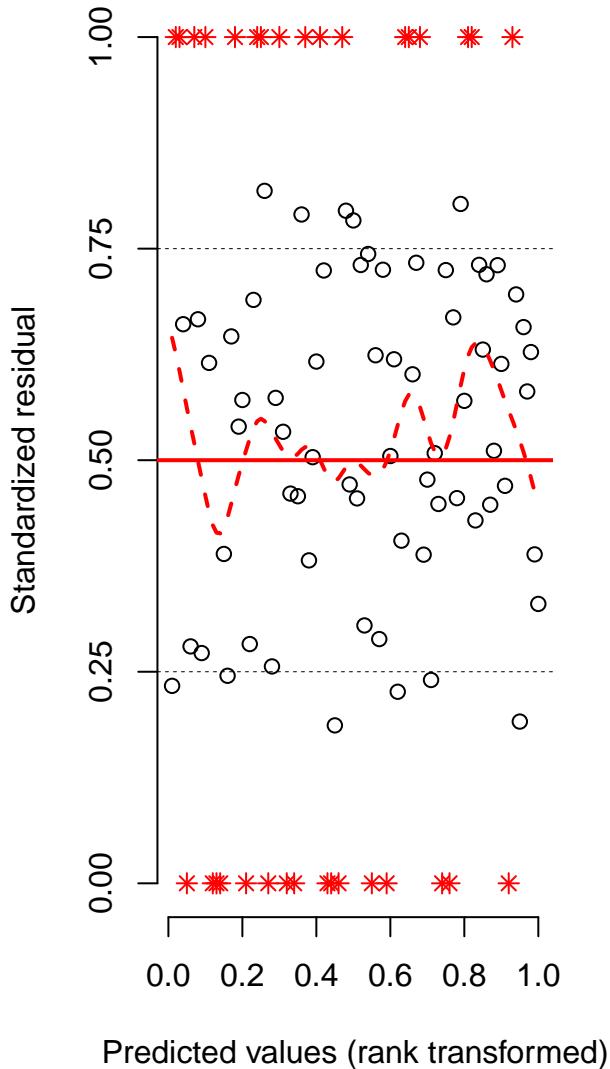
Simulated values, red line = fitted model. p-value (two.sided) = 0.9

DHARMA scaled residual plots

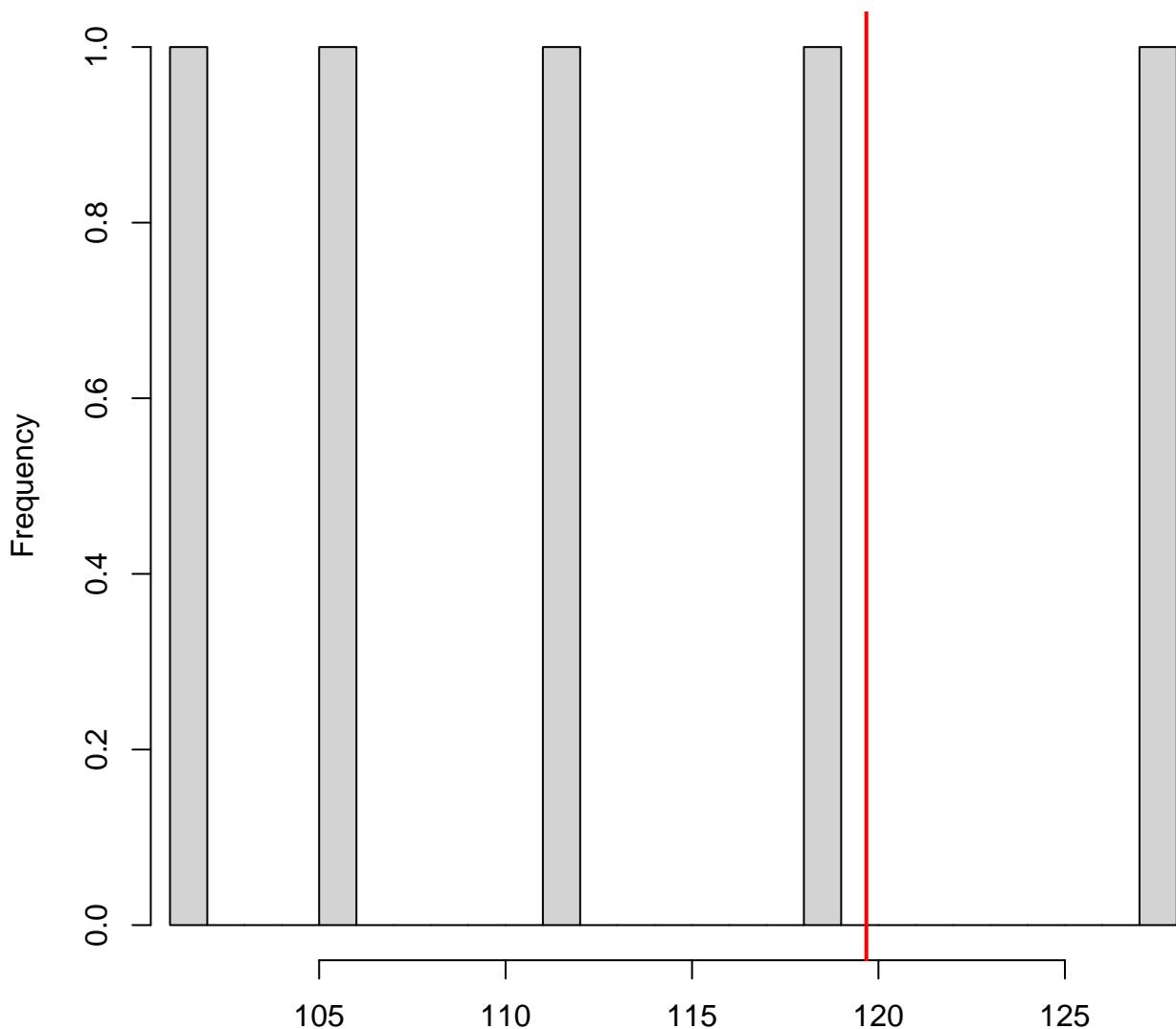
QQ plot residuals



Residual vs. predicted lines should match

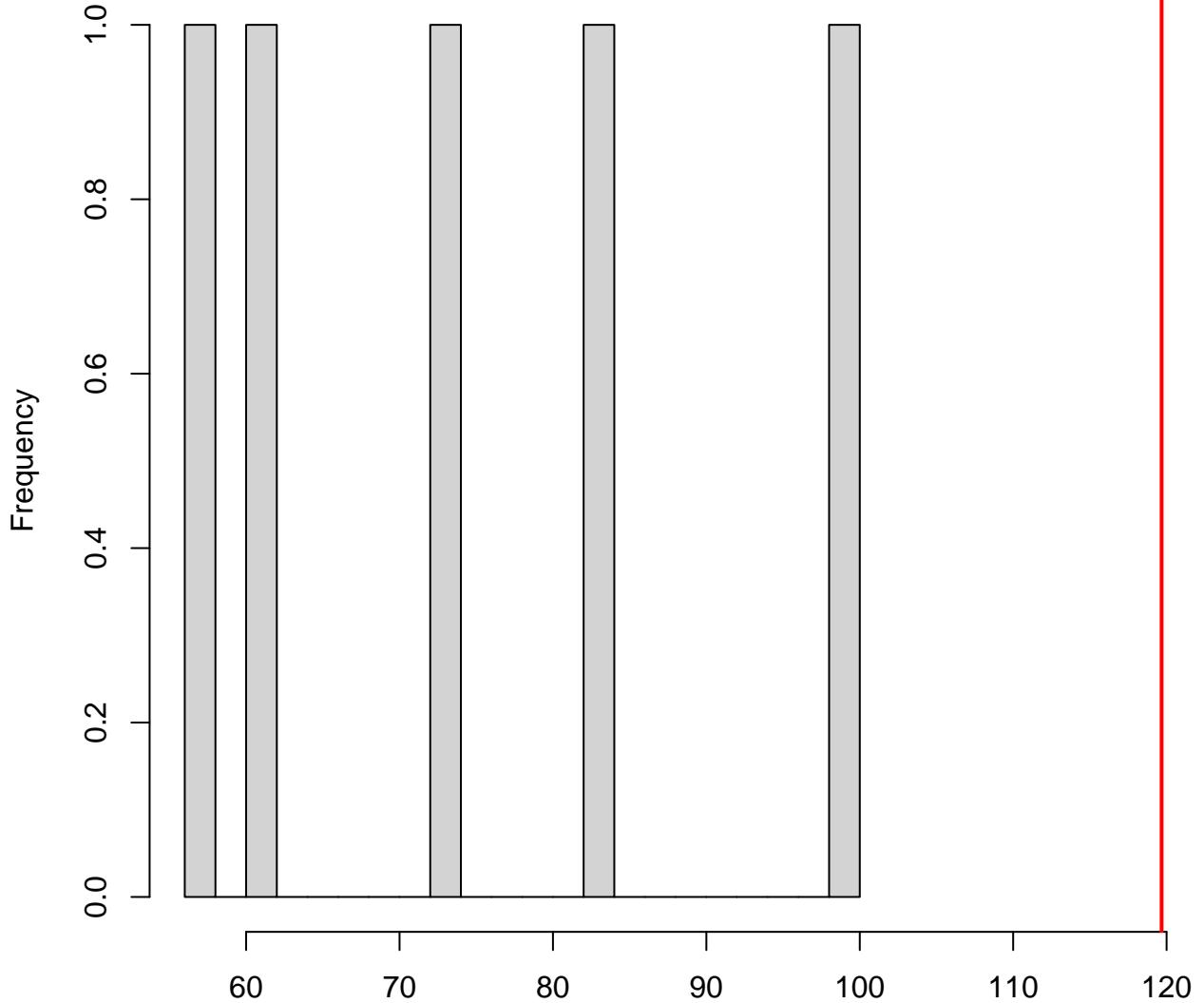


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



Simulated values, red line = fitted model. p-value (two.sided) = 0.4

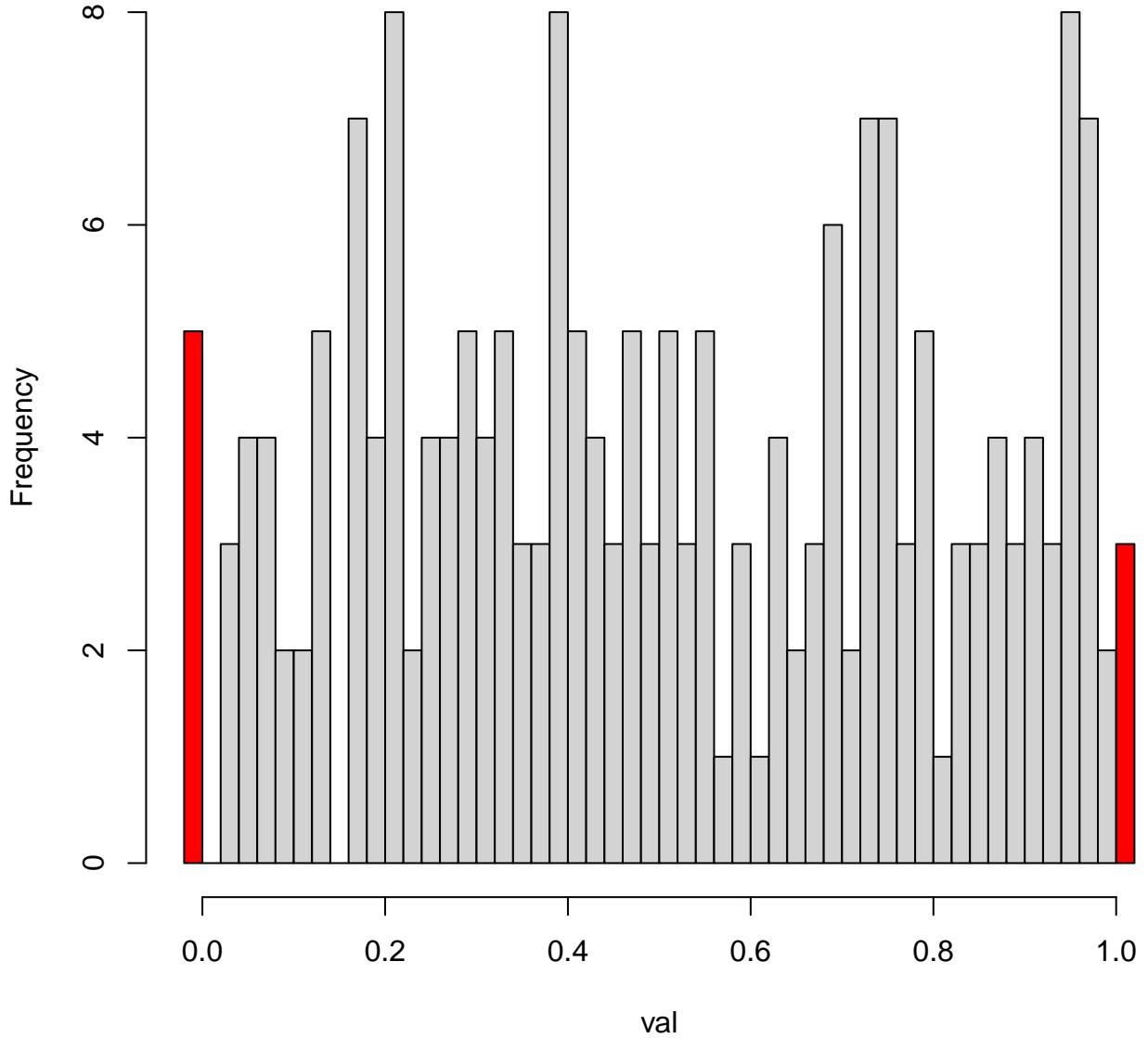
DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



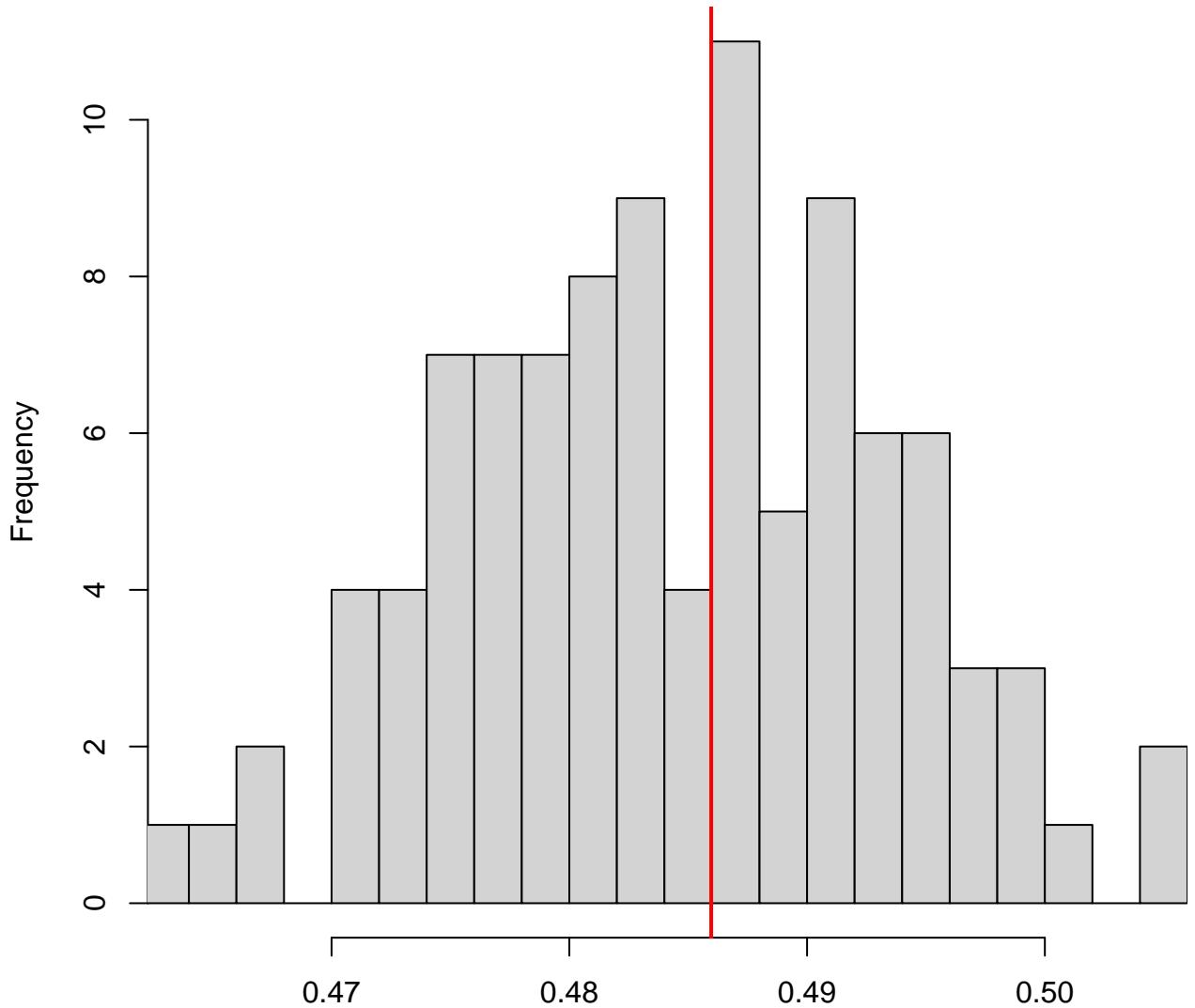
Simulated values, red line = fitted model. p-value (two.sided) = 0

Hist of DHARMA residuals

Outliers are marked red

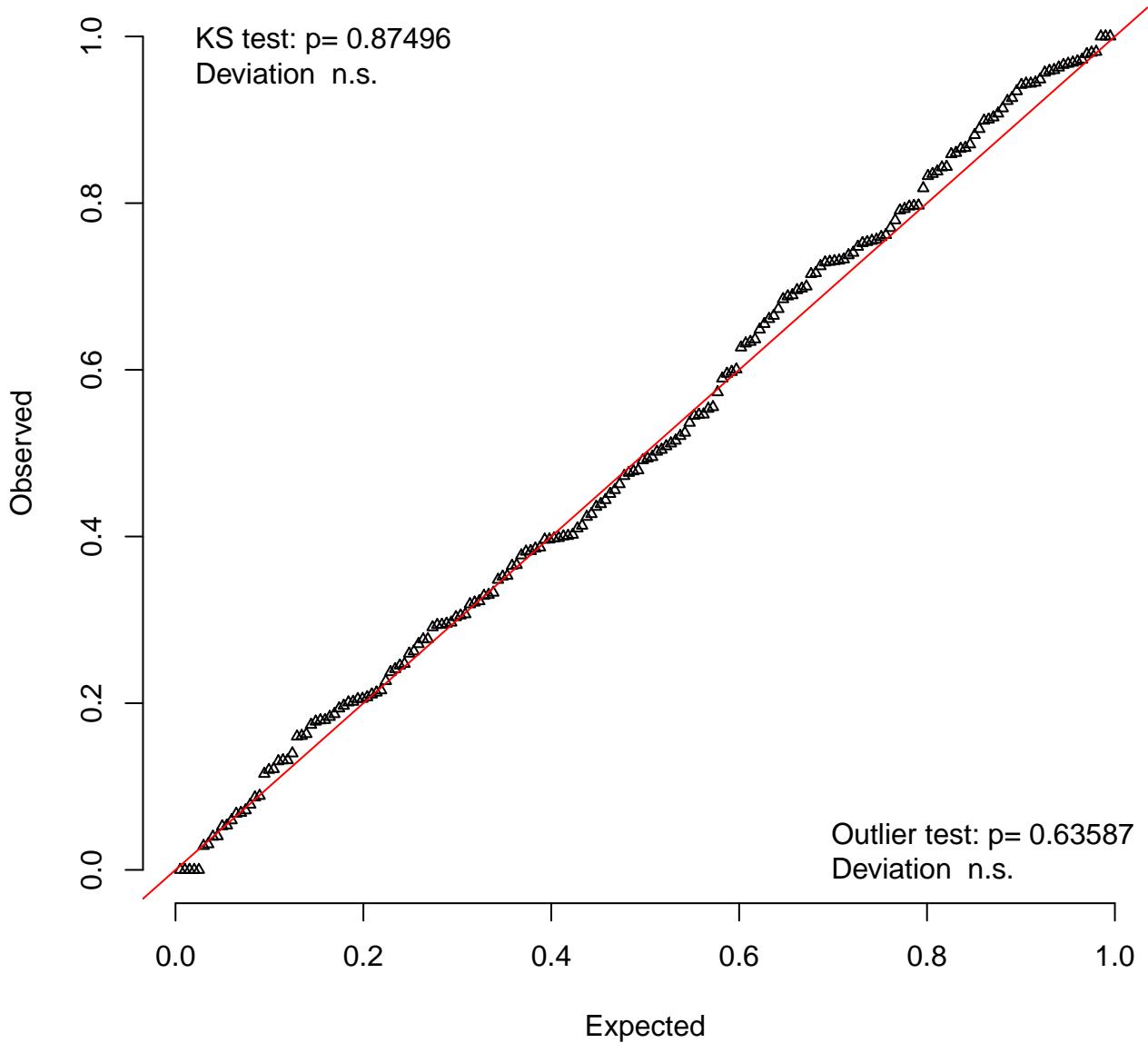


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

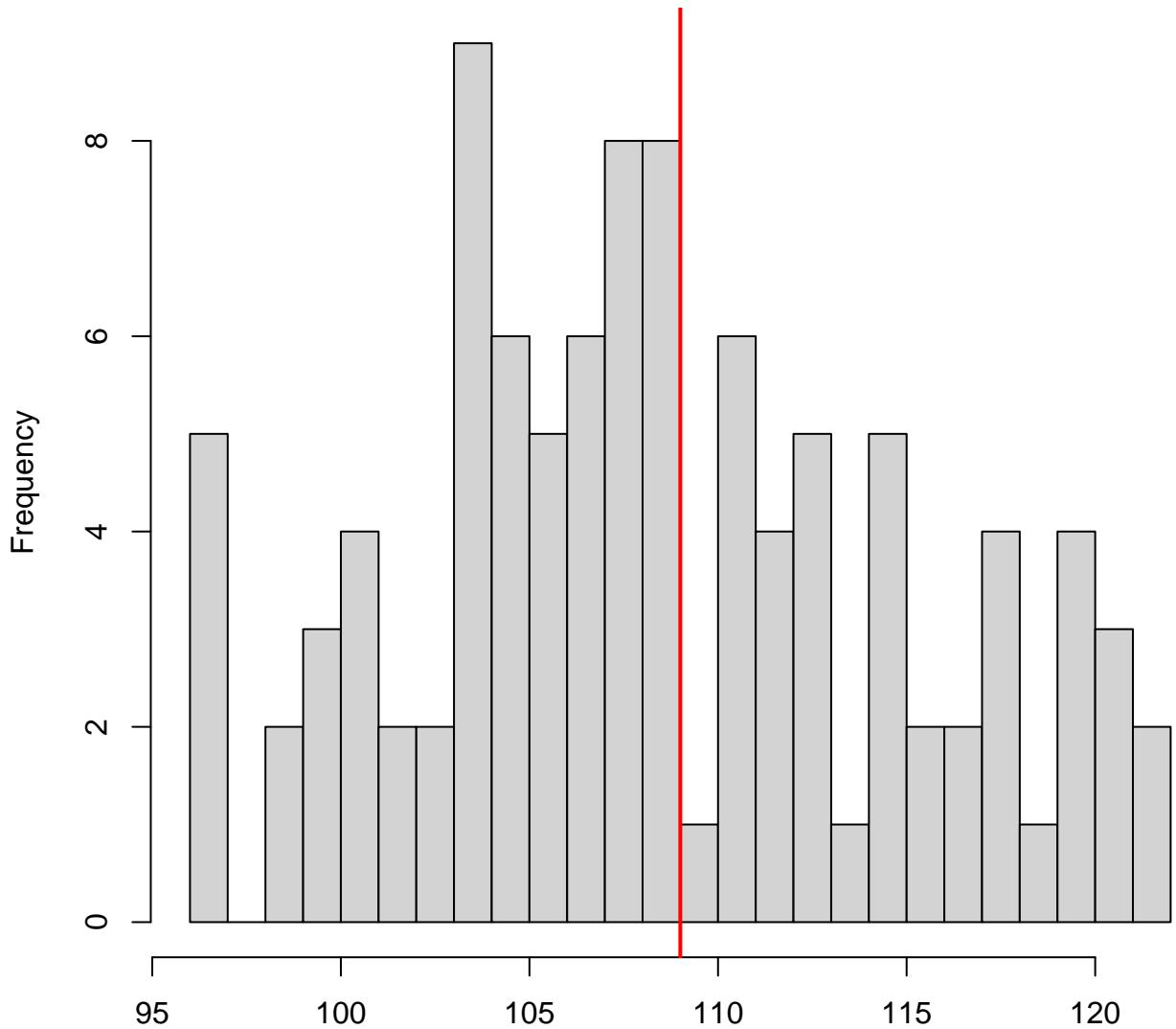


Simulated values, red line = fitted model. p-value (two.sided) = 0.92

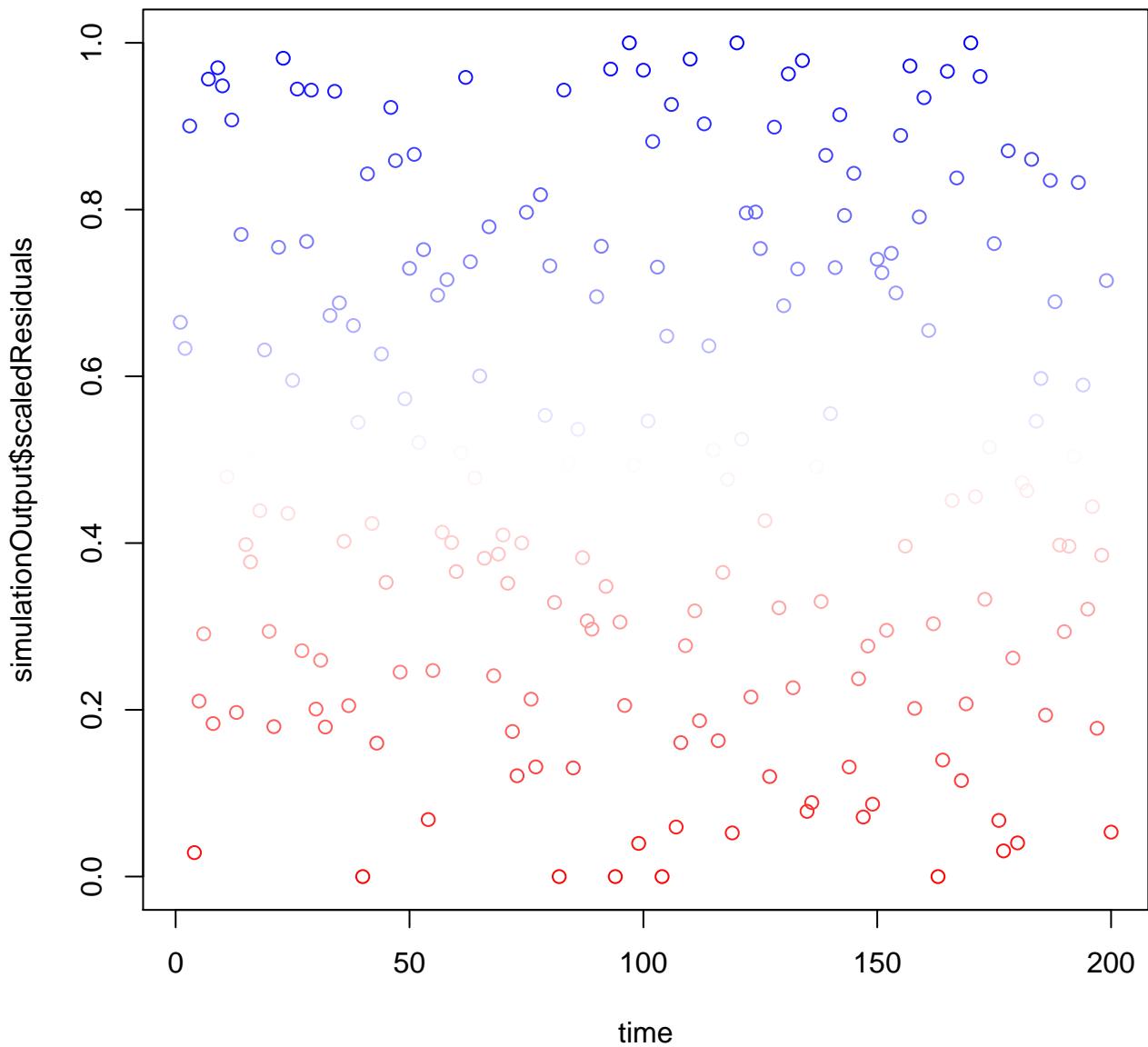
QQ plot residuals

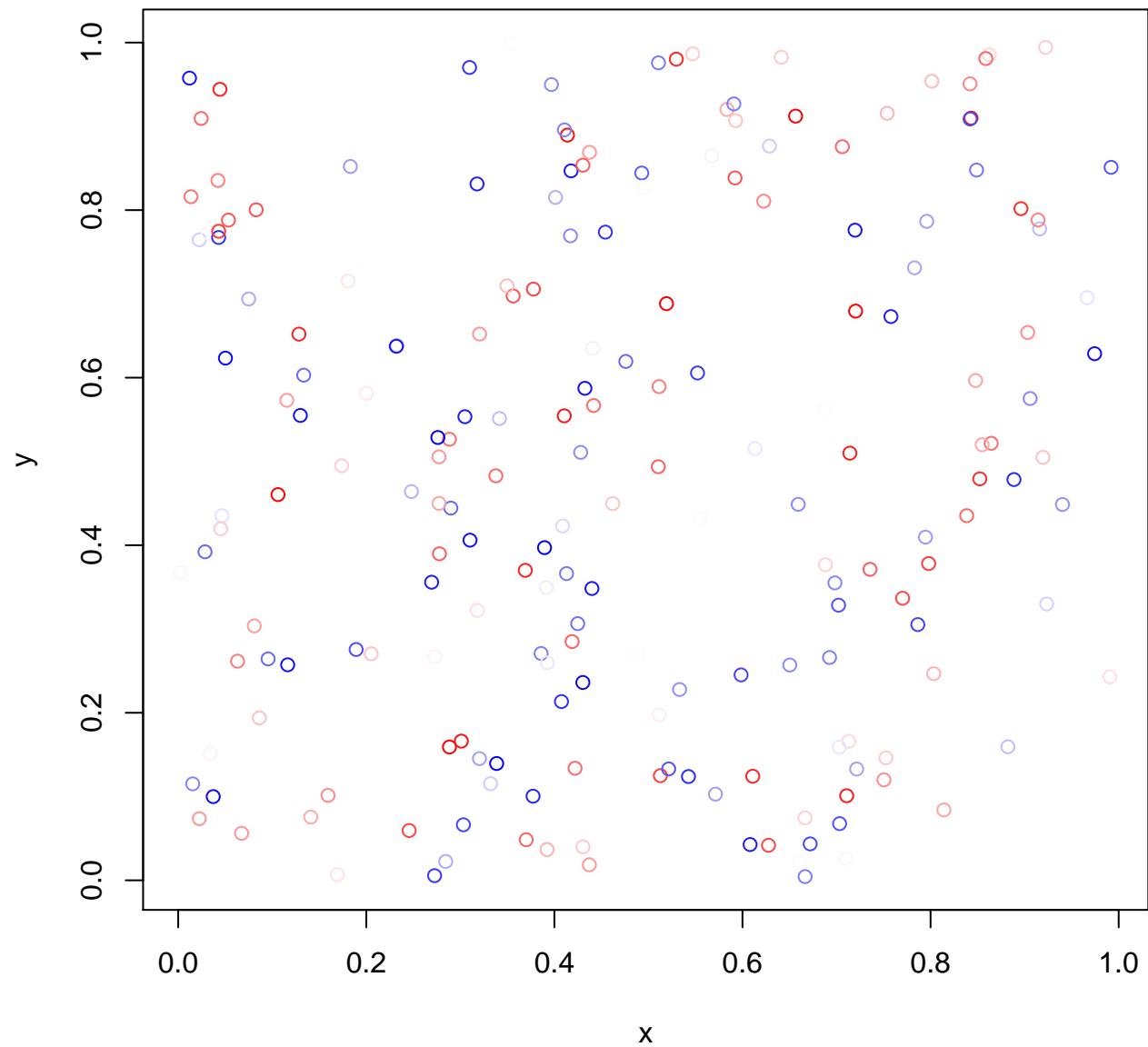


DHARMA zero-inflation test via comparison to expected zeros with simulation under $H_0 =$ fitted model

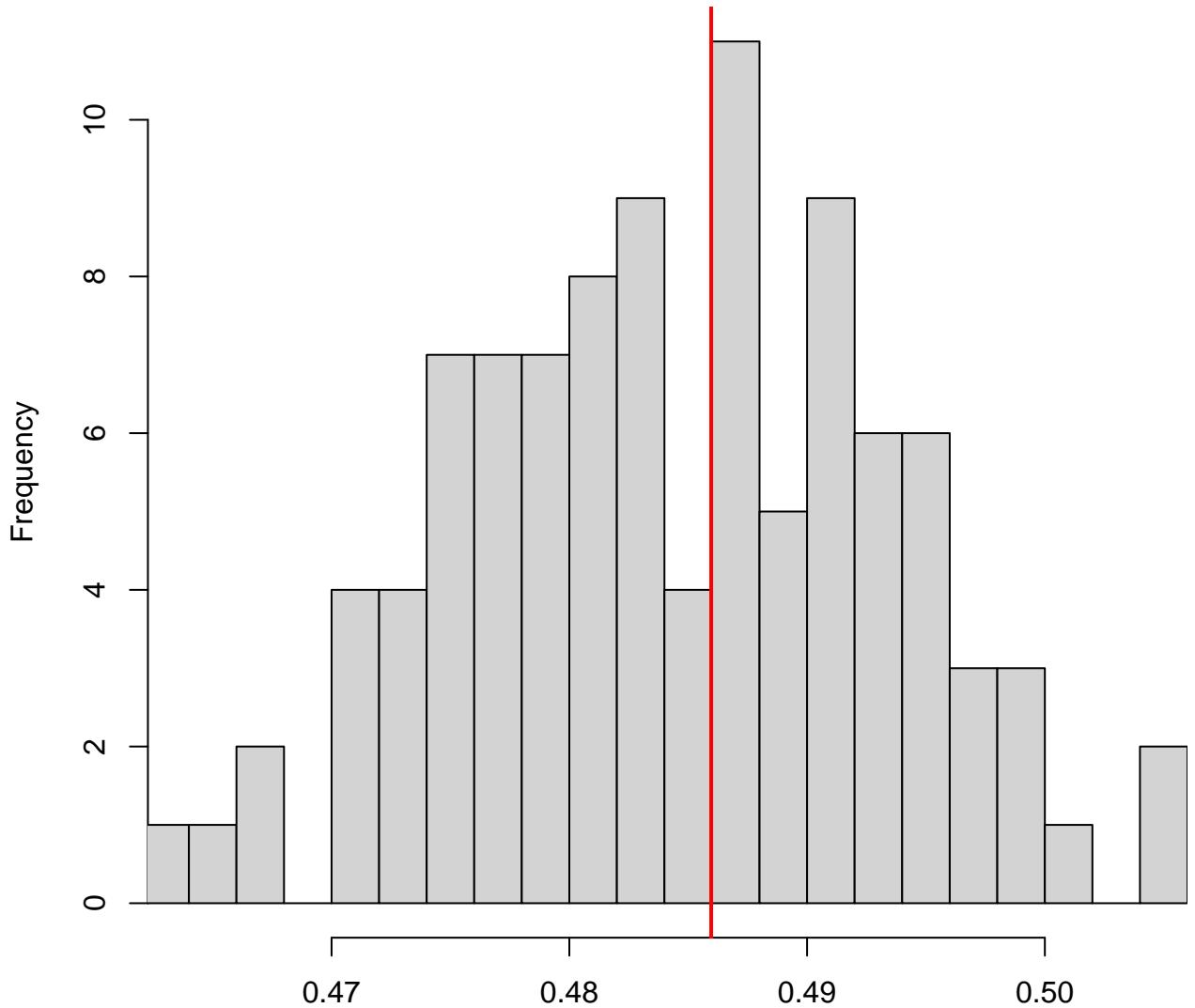


Simulated values, red line = fitted model. p-value (two.sided) = 0.96



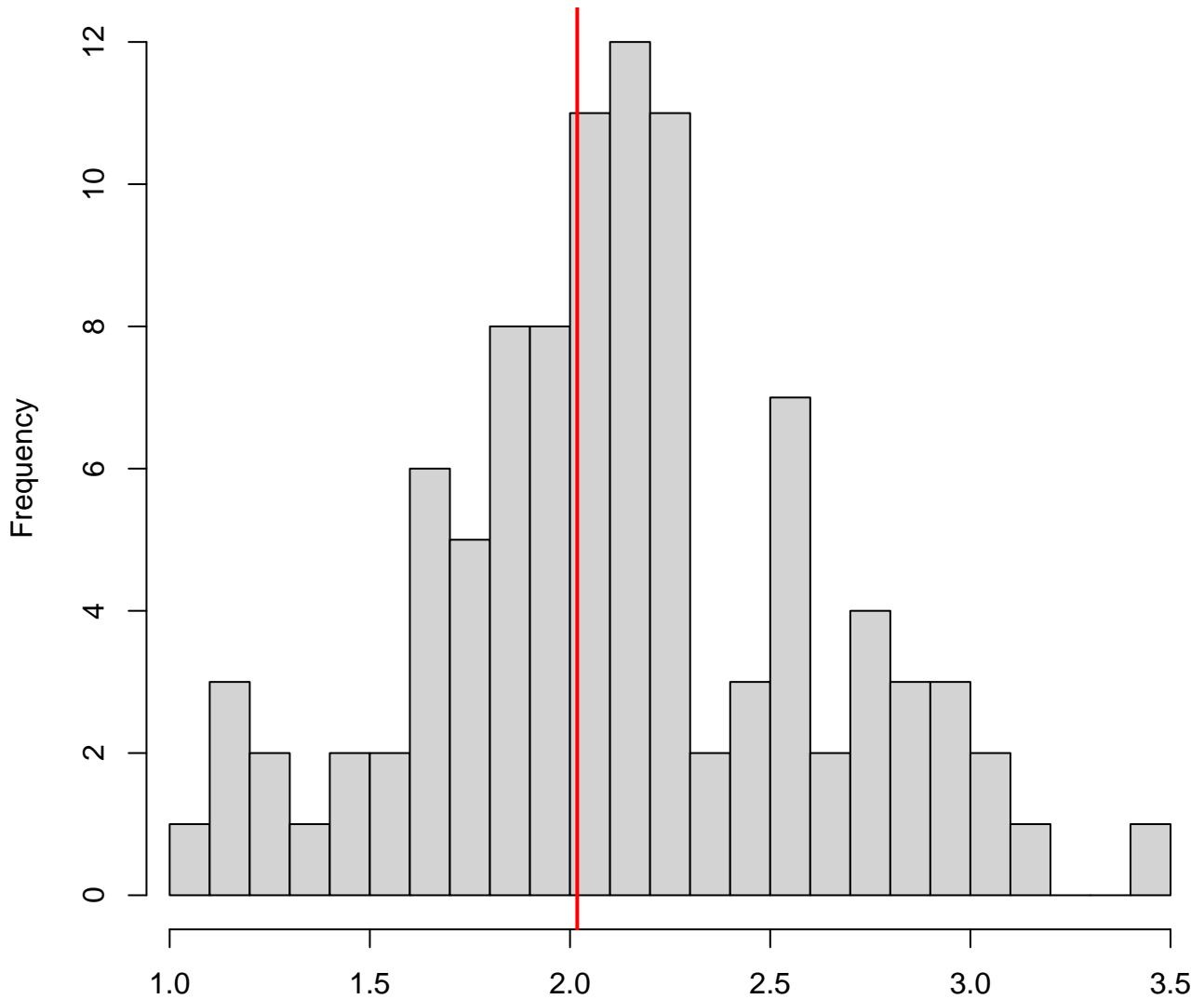


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.92

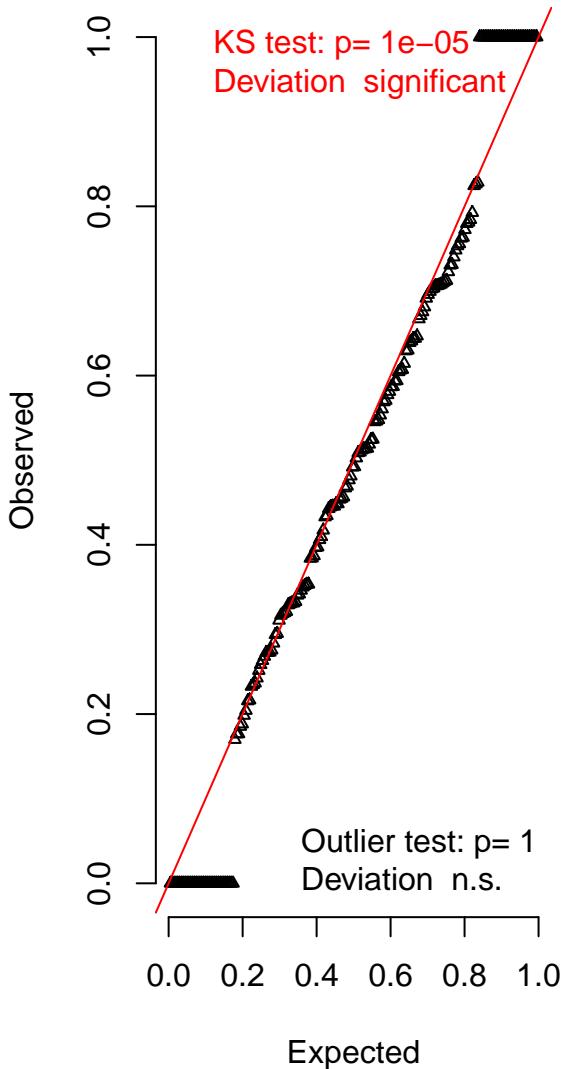
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



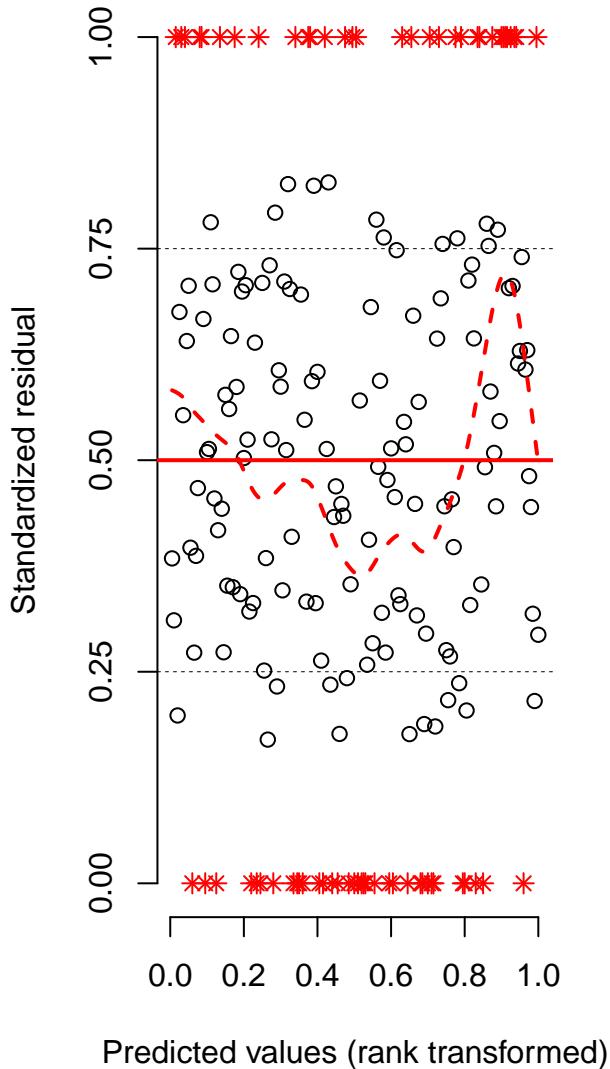
Simulated values, red line = fitted model. p-value (two.sided) = 0.8

DHARMA scaled residual plots

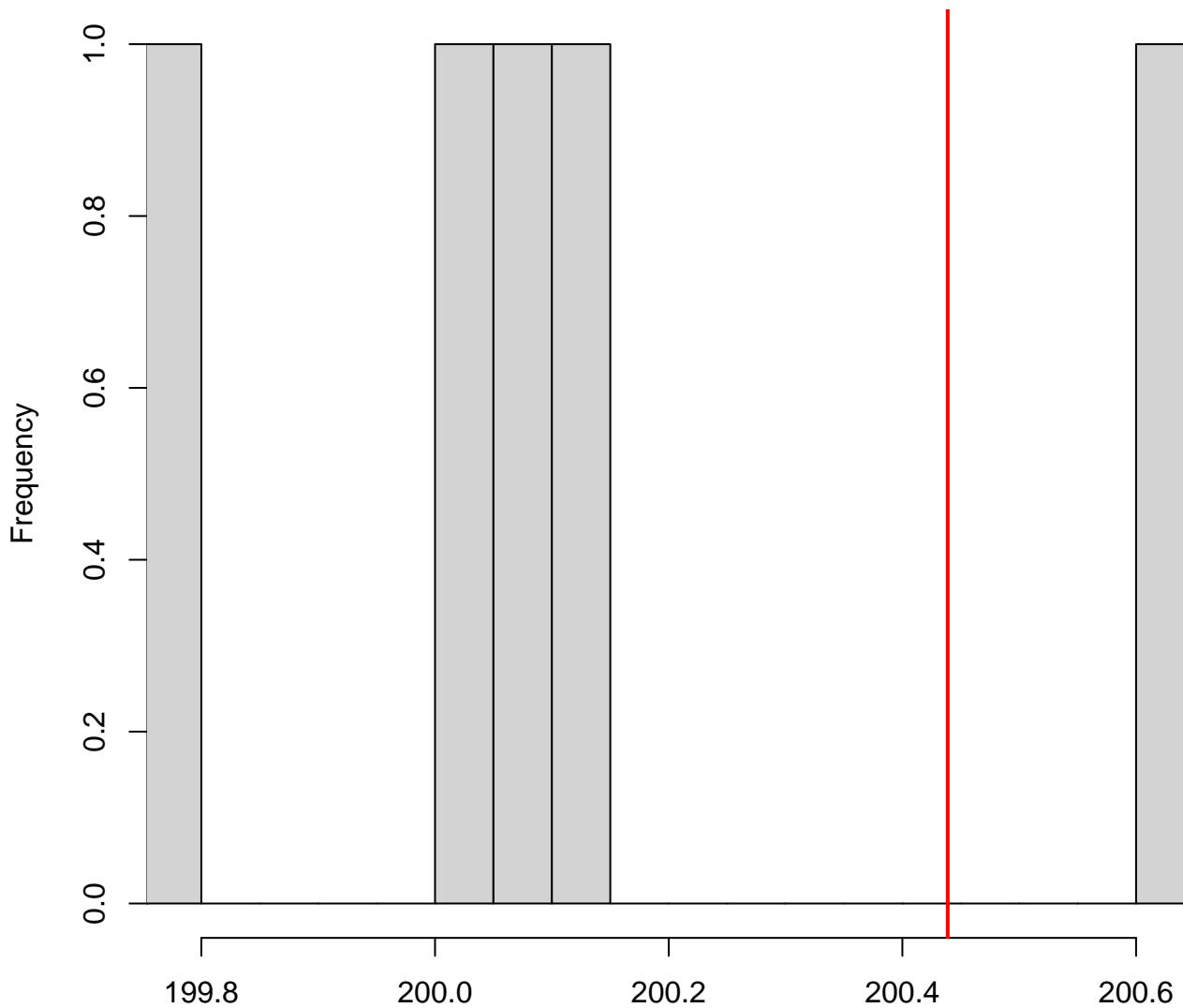
QQ plot residuals



Residual vs. predicted lines should match

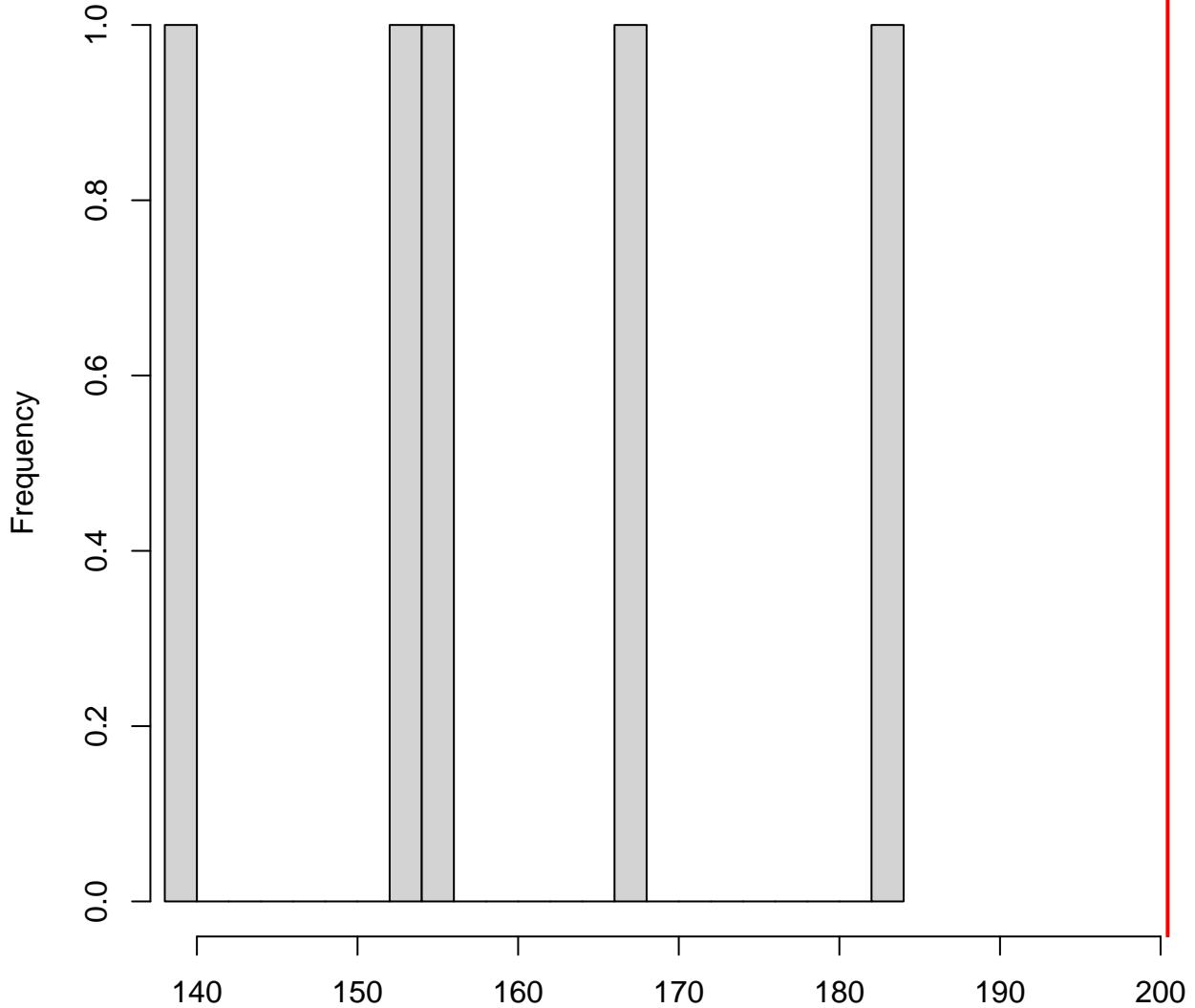


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



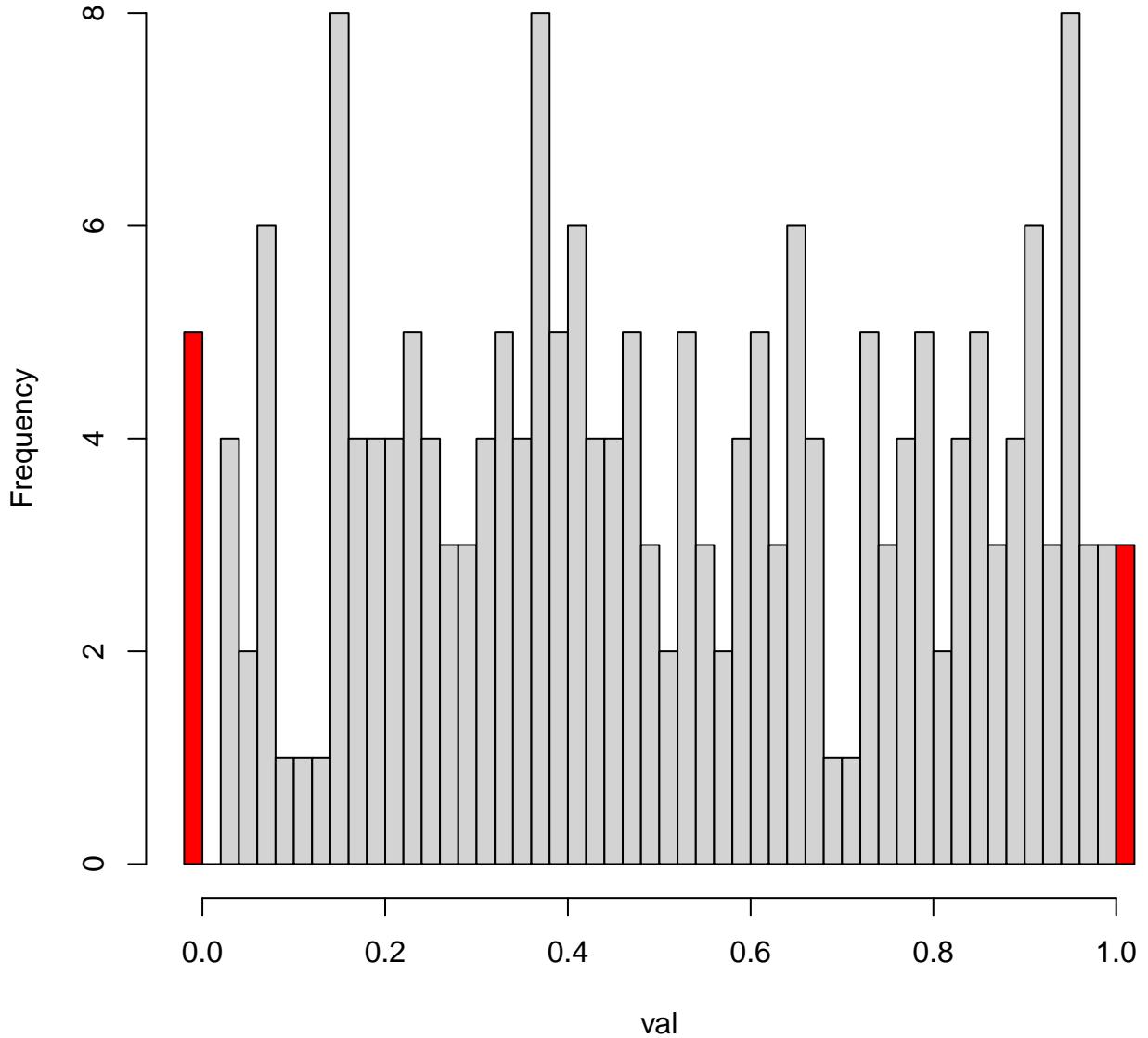
Simulated values, red line = fitted model. p-value (two.sided) = 0.4

DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted

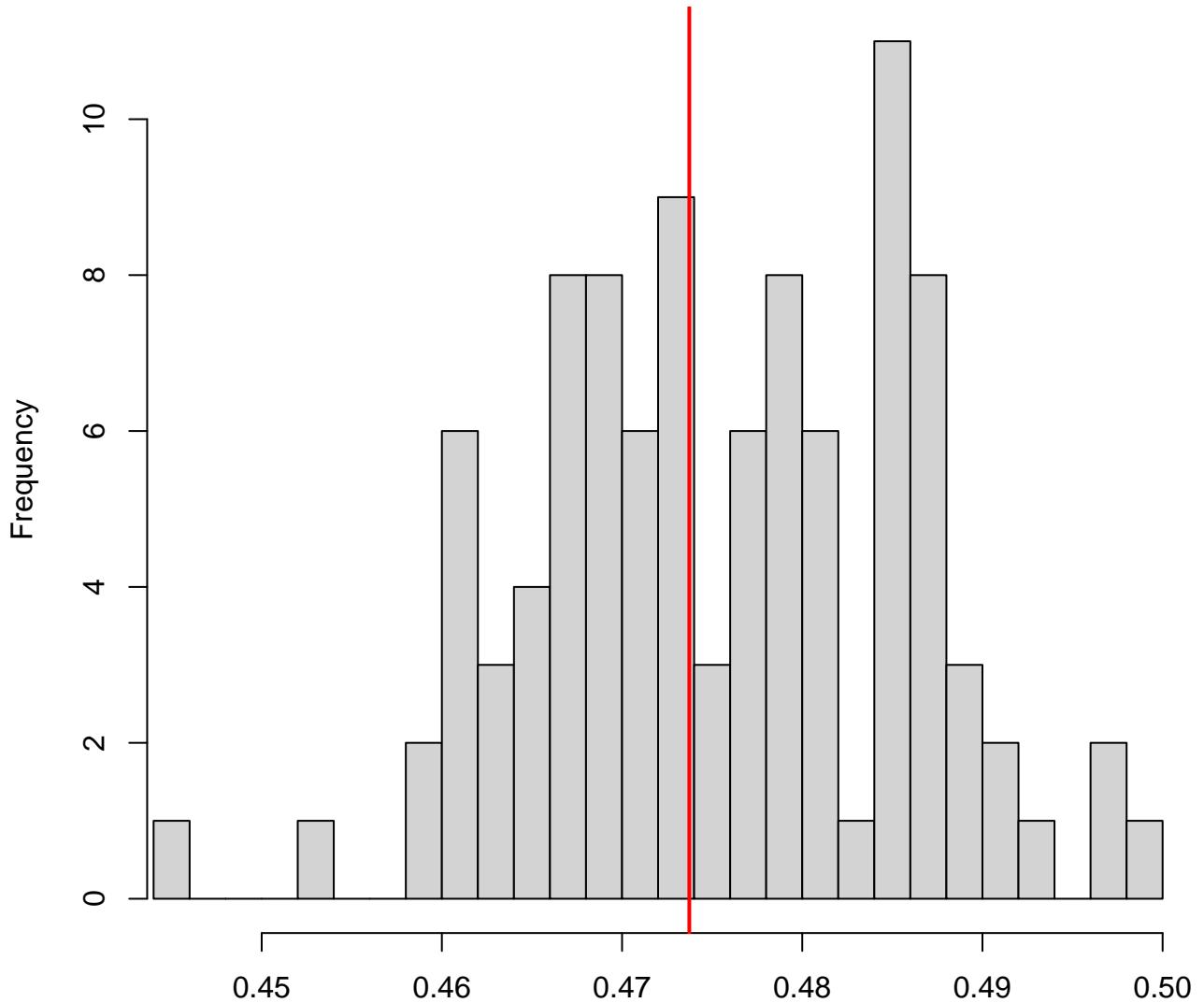


Simulated values, red line = fitted model. p-value (two.sided) = 0

Hist of DHARMA residuals
Outliers are marked red

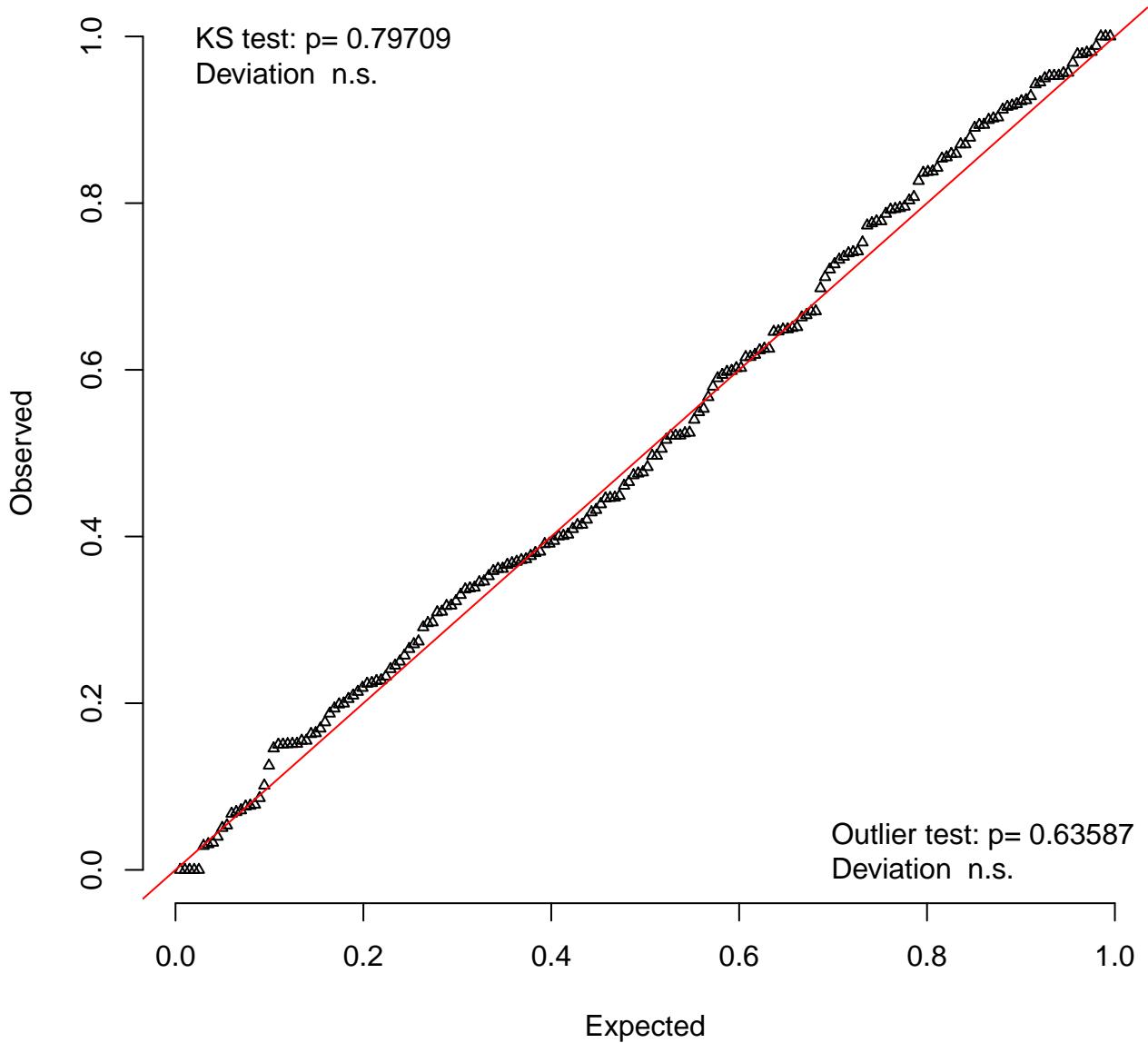


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

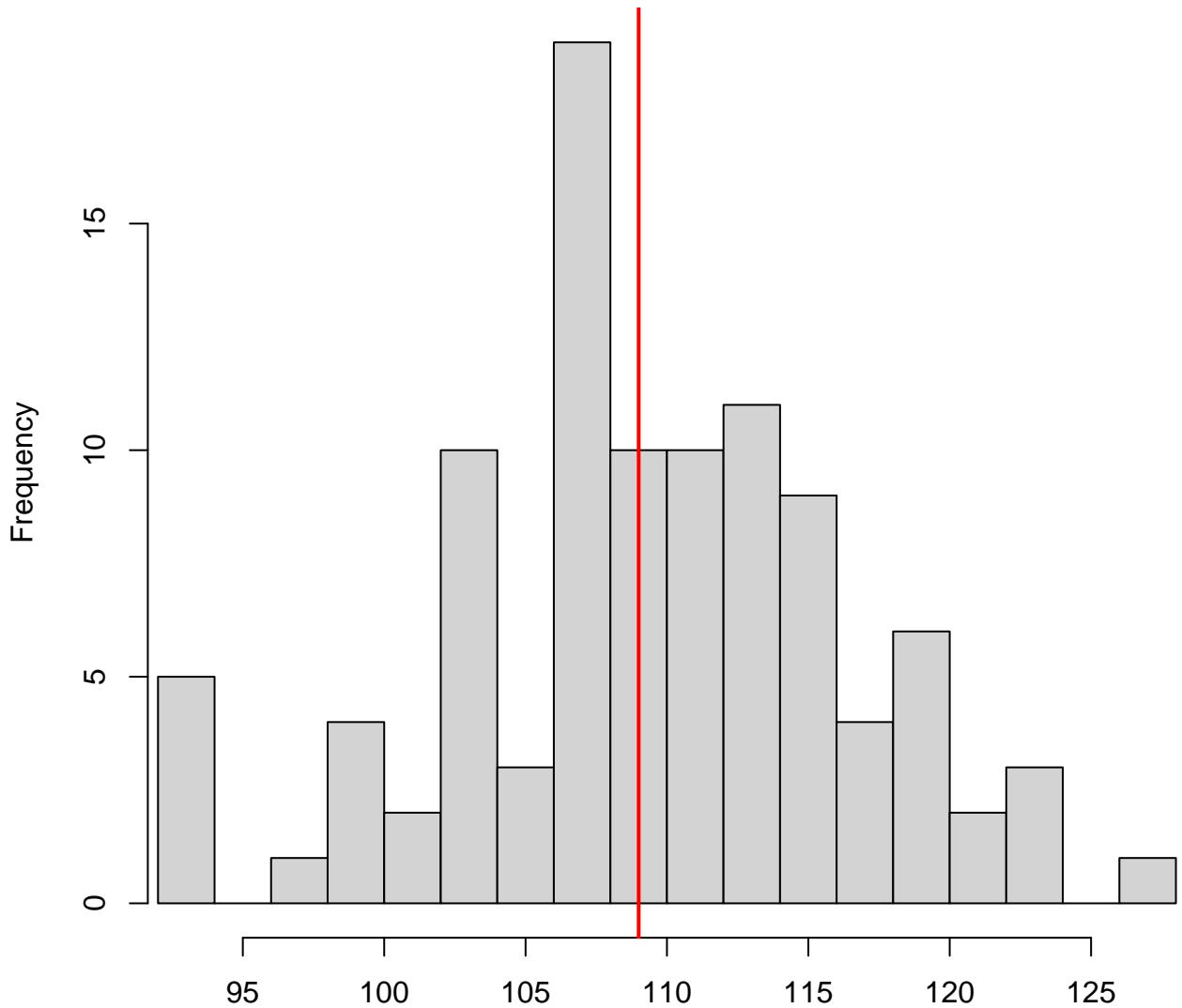


Simulated values, red line = fitted model. p-value (two.sided) = 0.92

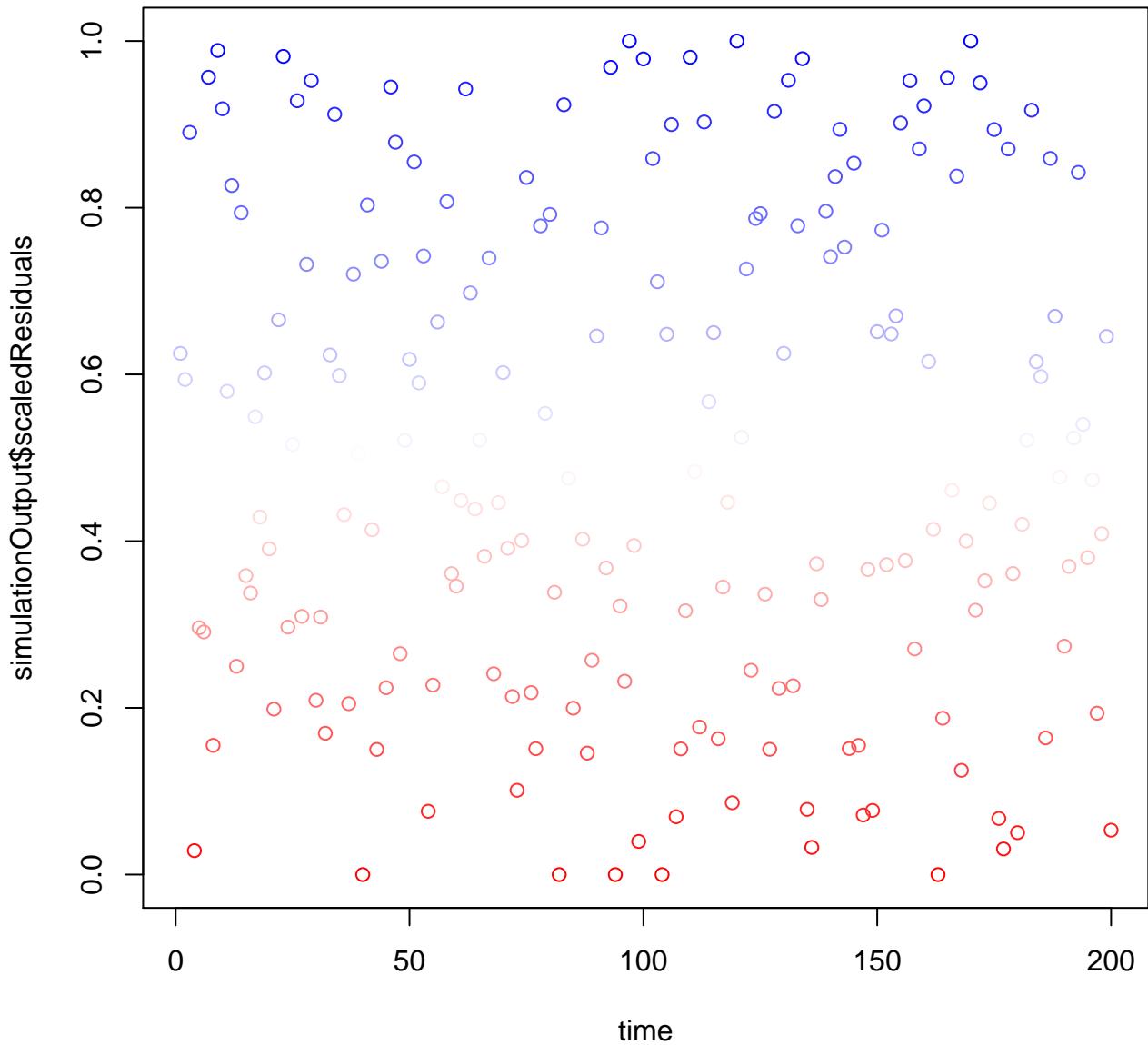
QQ plot residuals

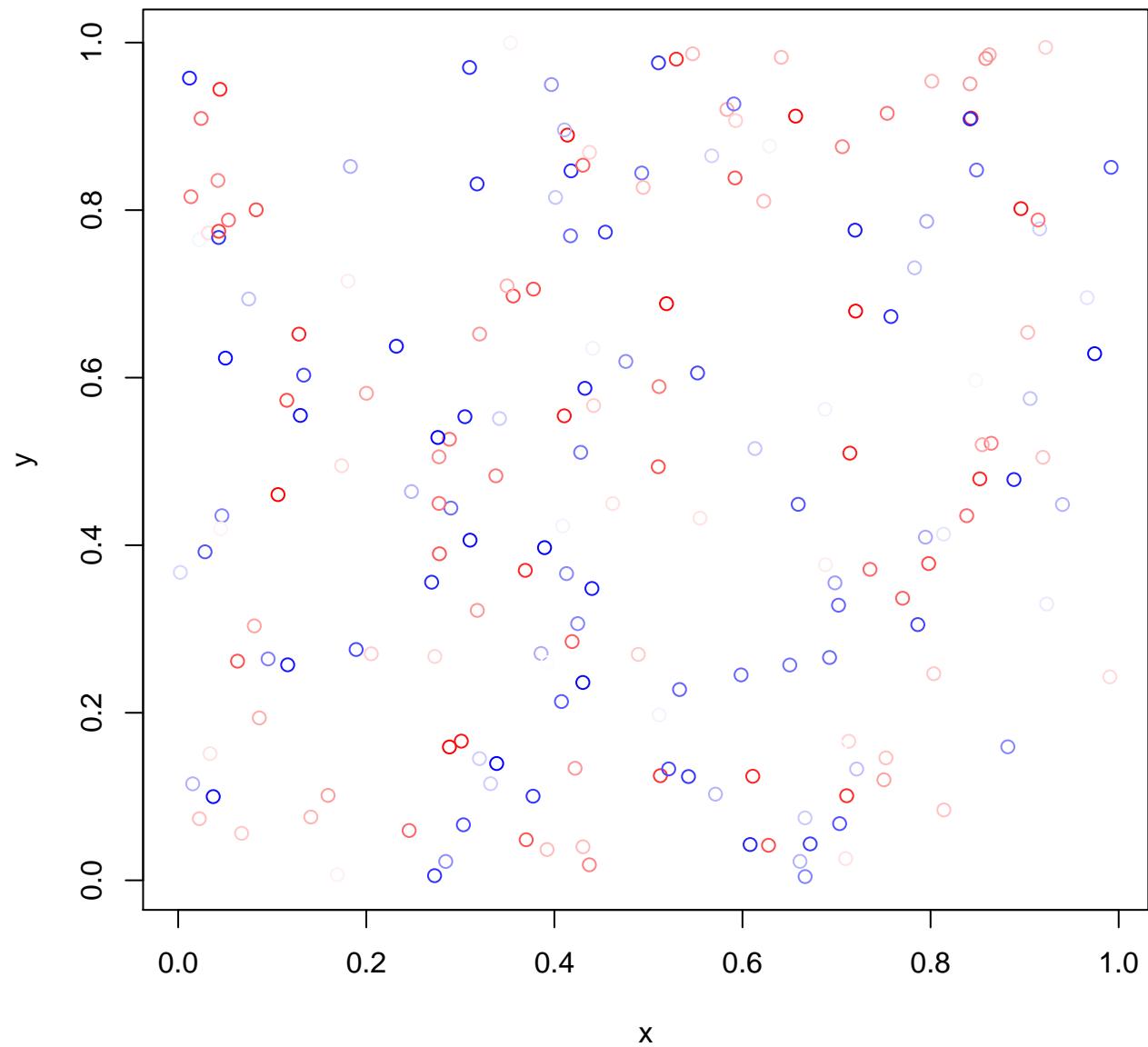


DHARMA zero-inflation test via comparison to expected zeros with simulation under H0 = fitted model

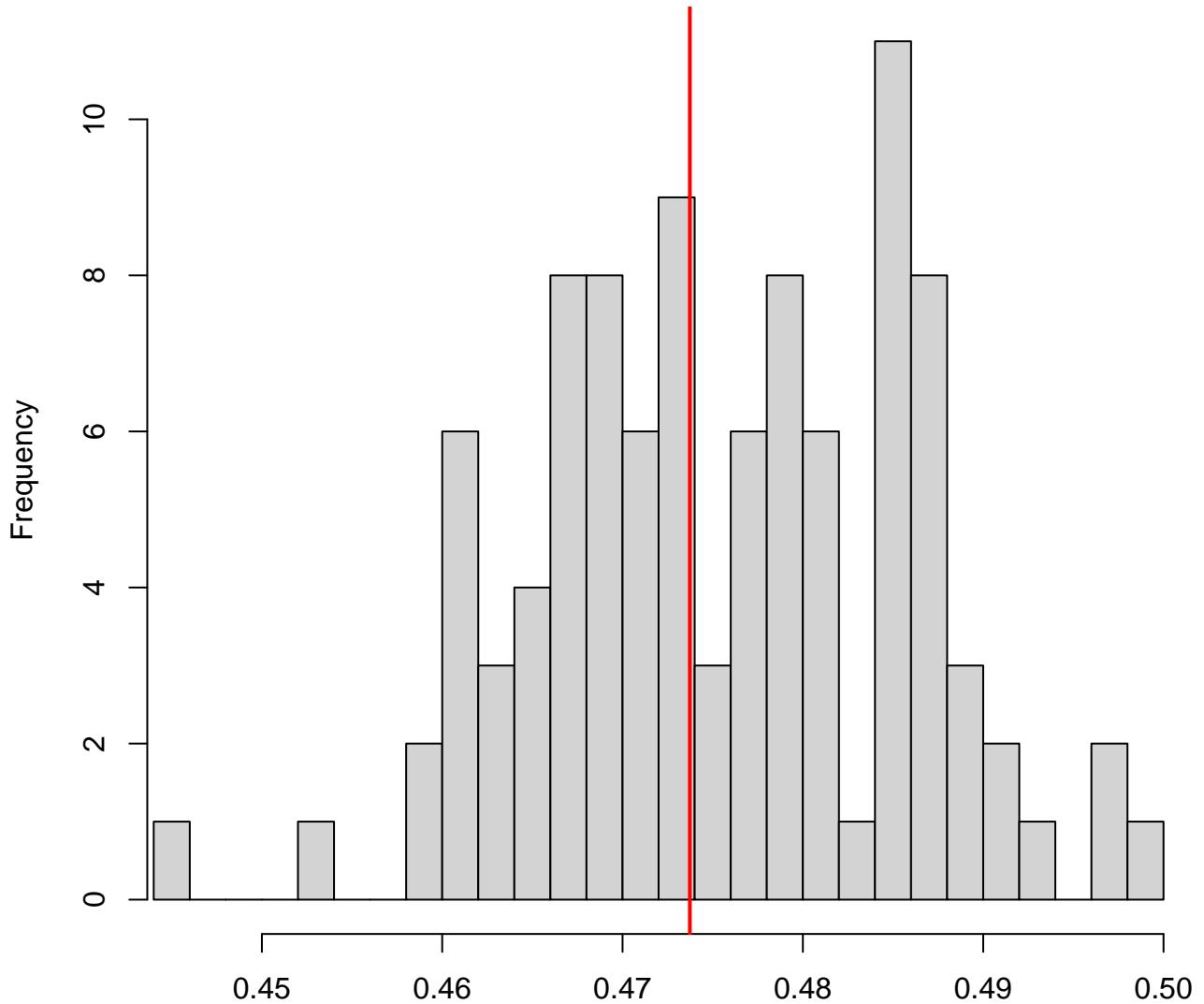


Simulated values, red line = fitted model. p-value (two.sided) = 1



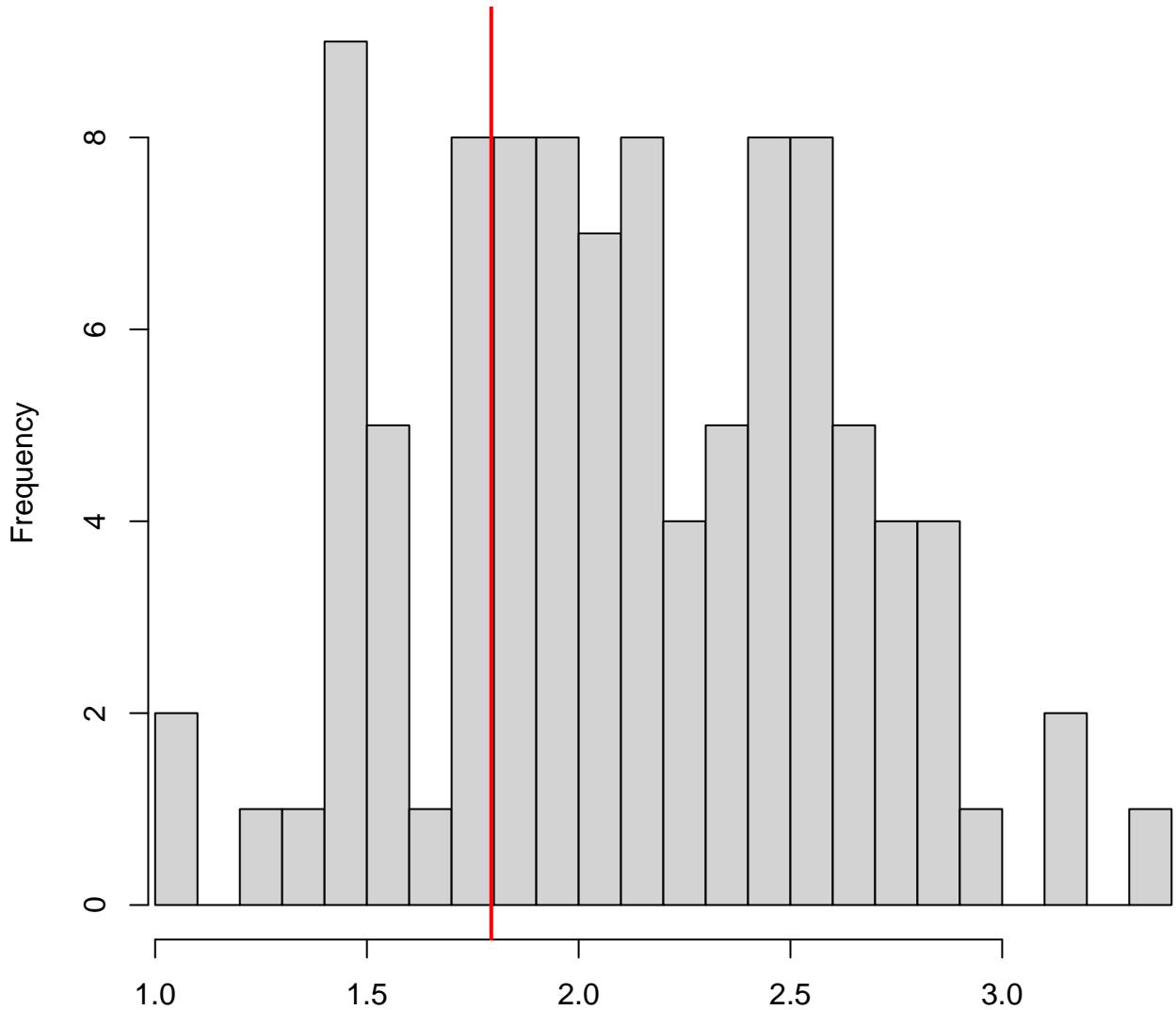


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.92

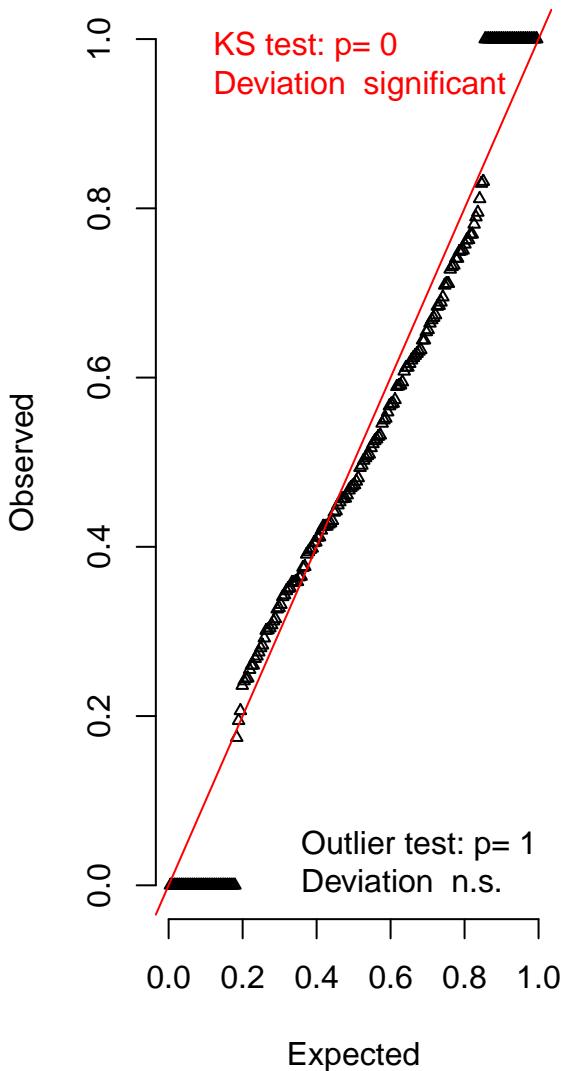
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



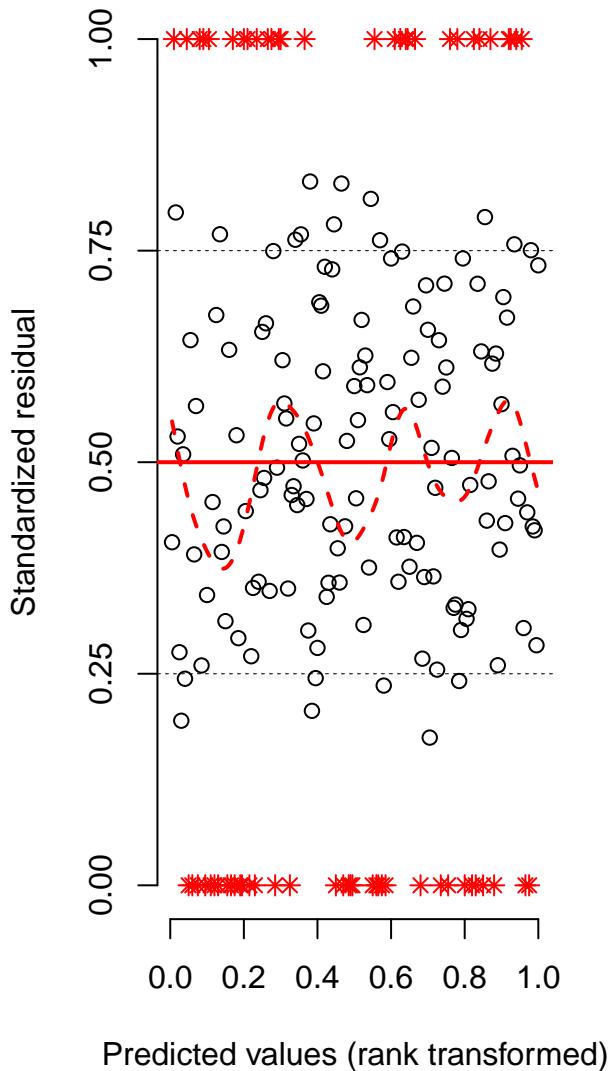
Simulated values, red line = fitted model. p-value (two.sided) = 0.54

DHARMA scaled residual plots

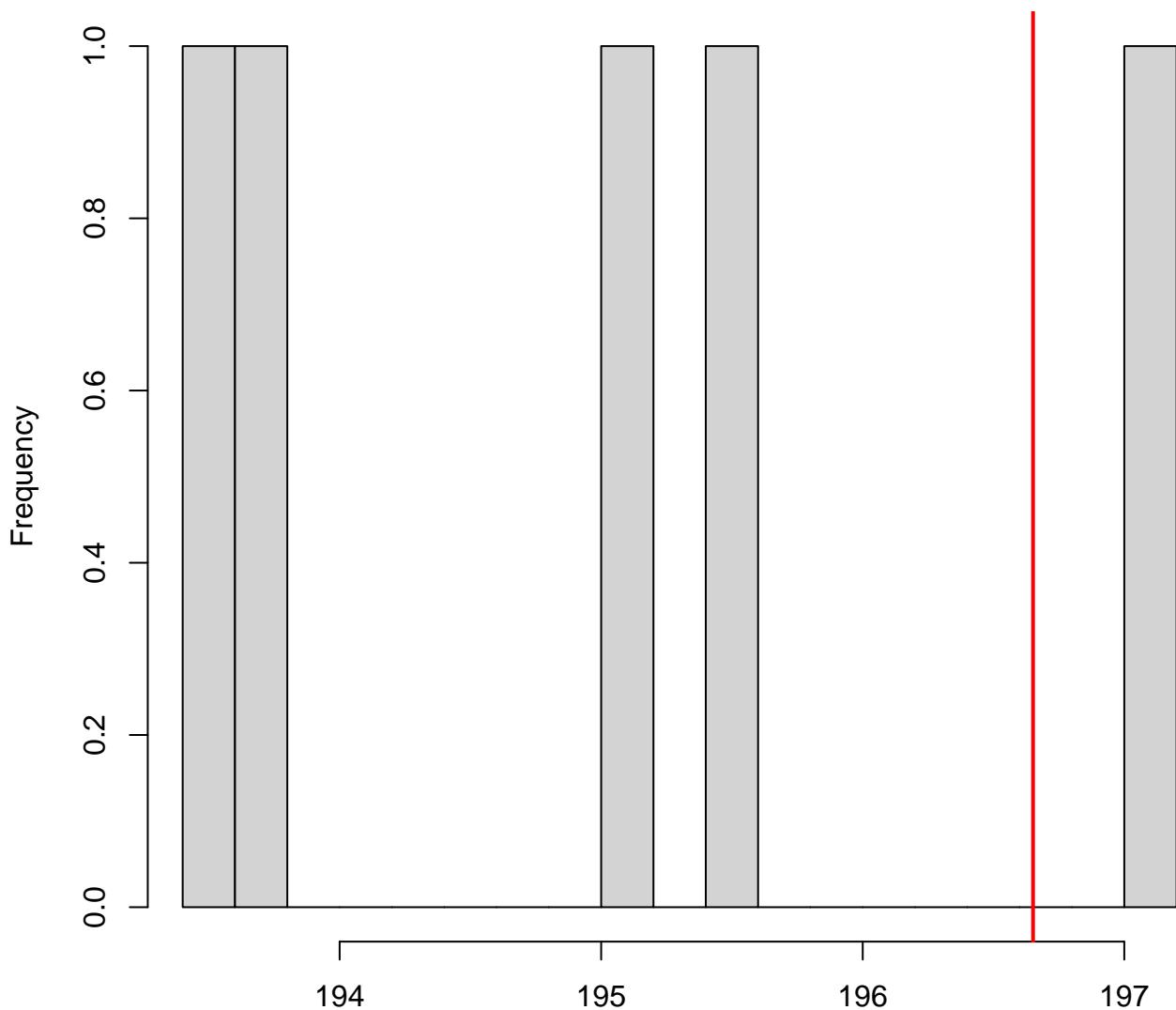
QQ plot residuals



Residual vs. predicted lines should match

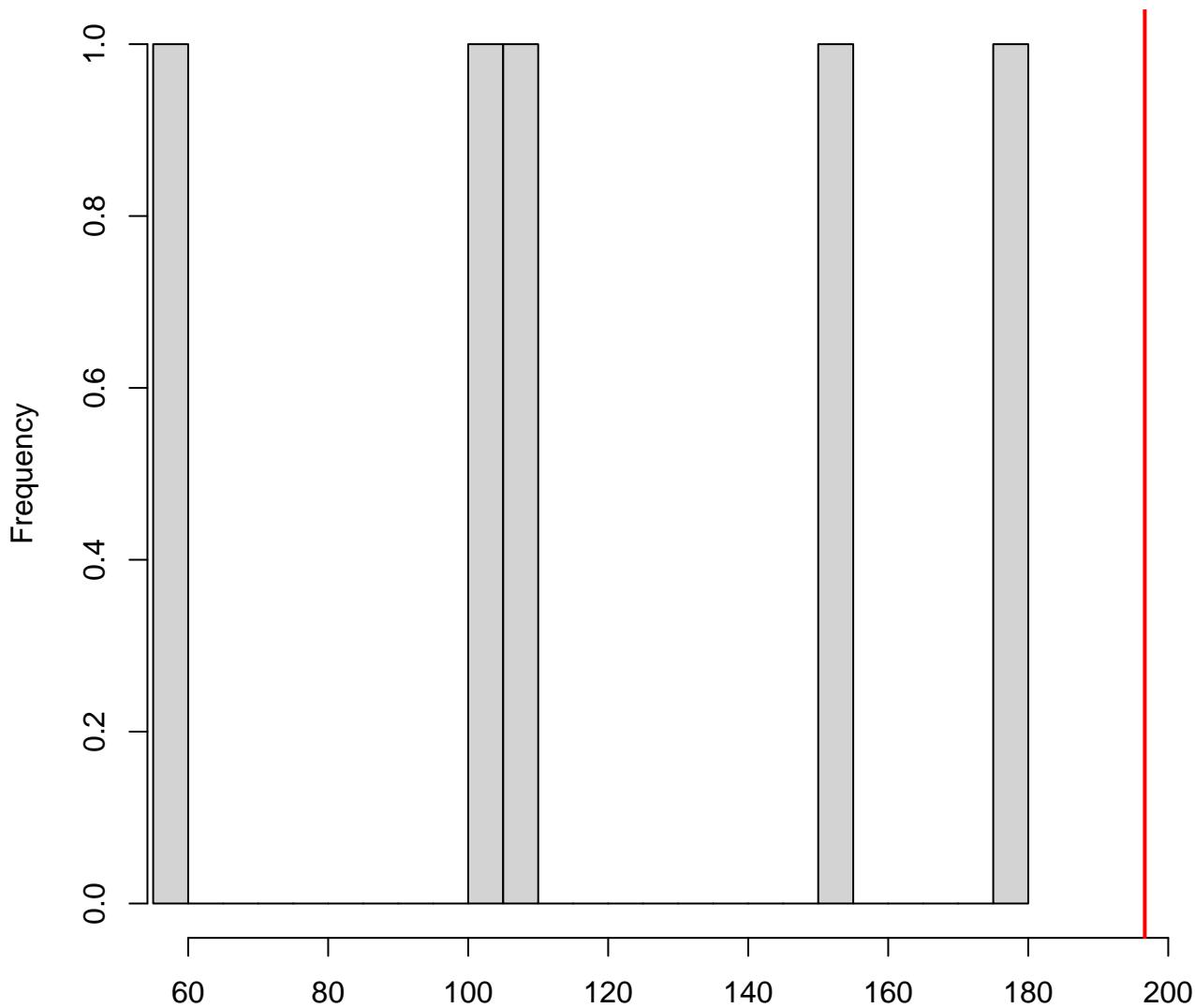


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



Simulated values, red line = fitted model. p-value (two.sided) = 0.4

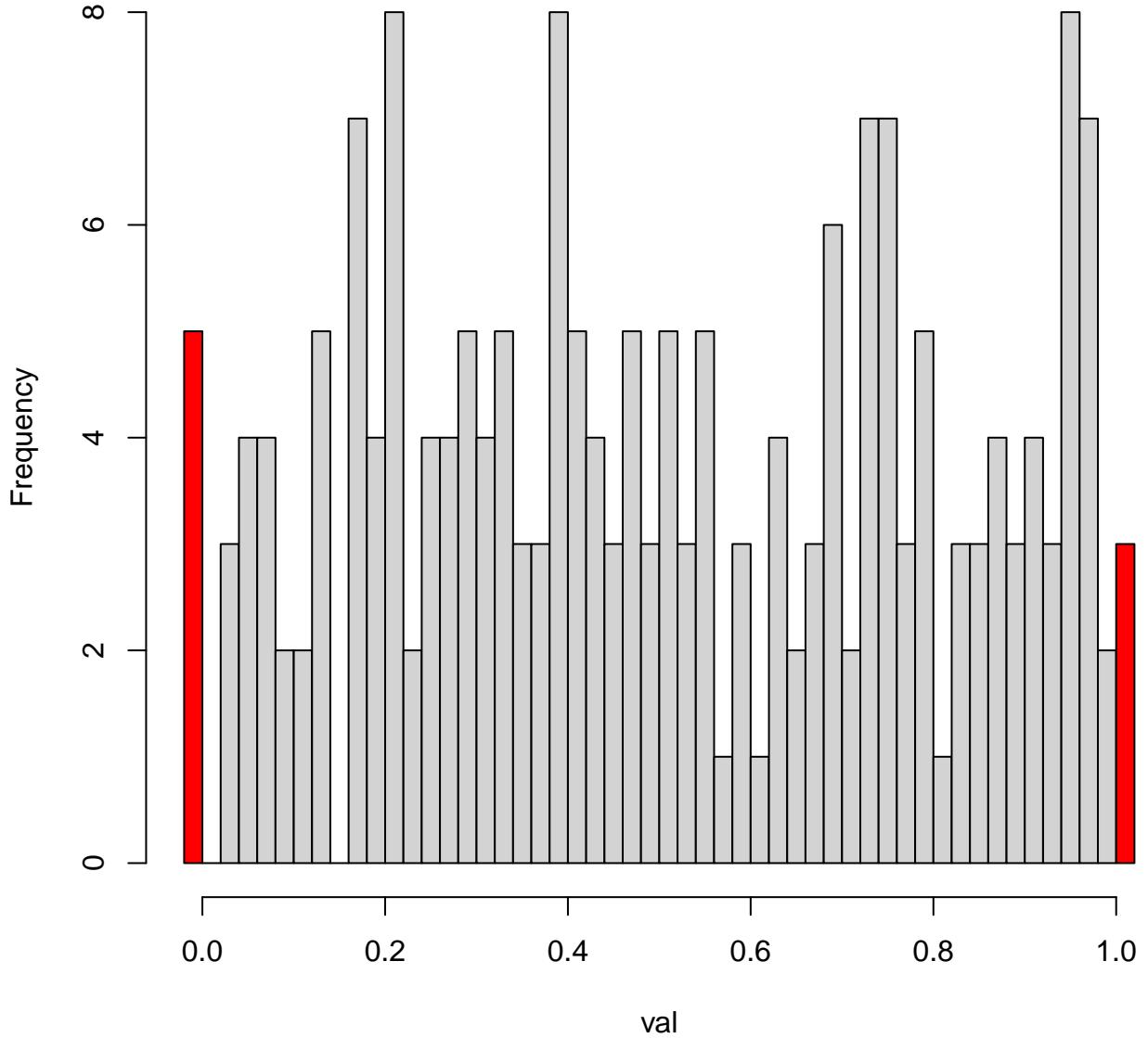
DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



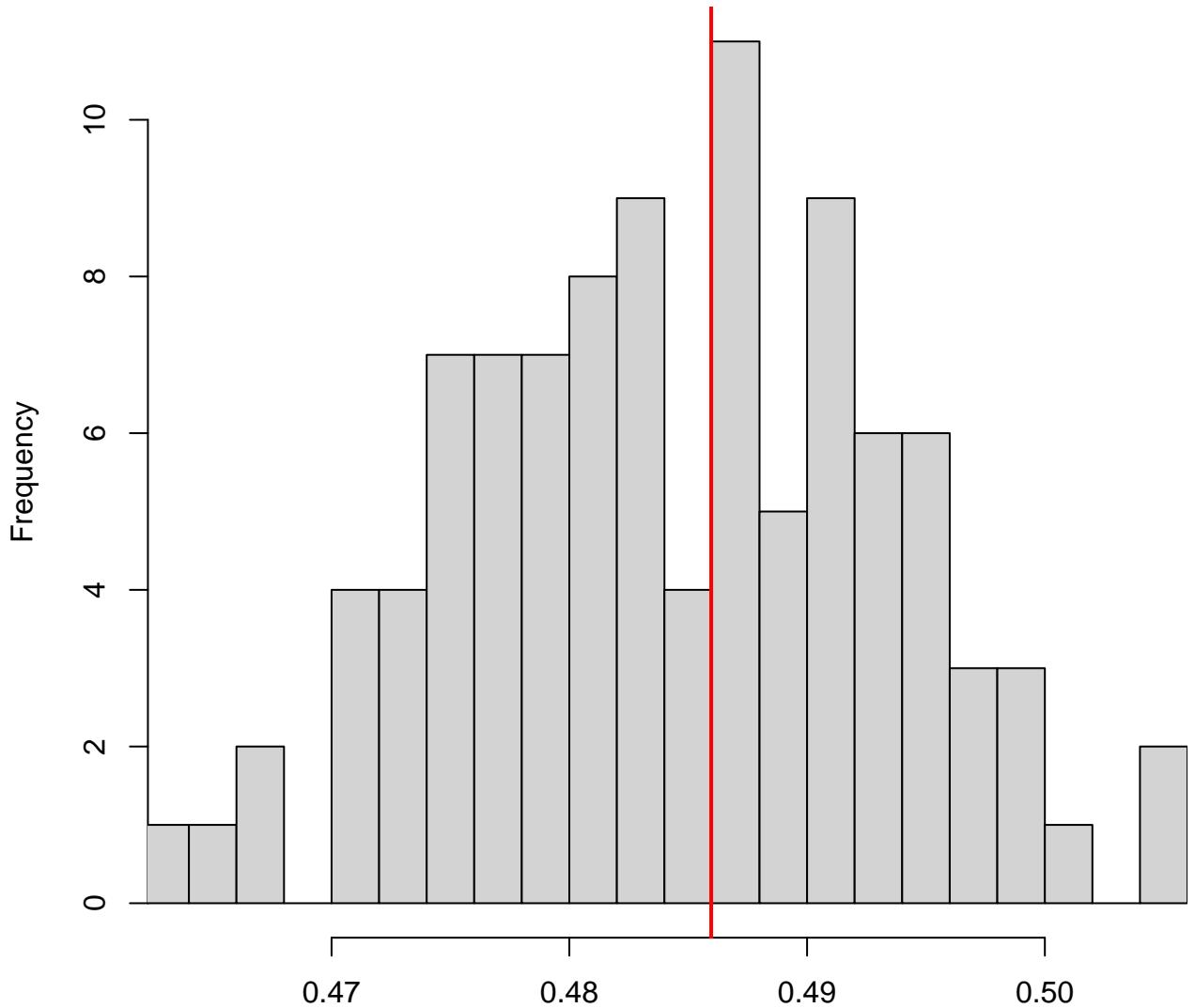
Simulated values, red line = fitted model. p-value (two.sided) = 0

Hist of DHARMA residuals

Outliers are marked red

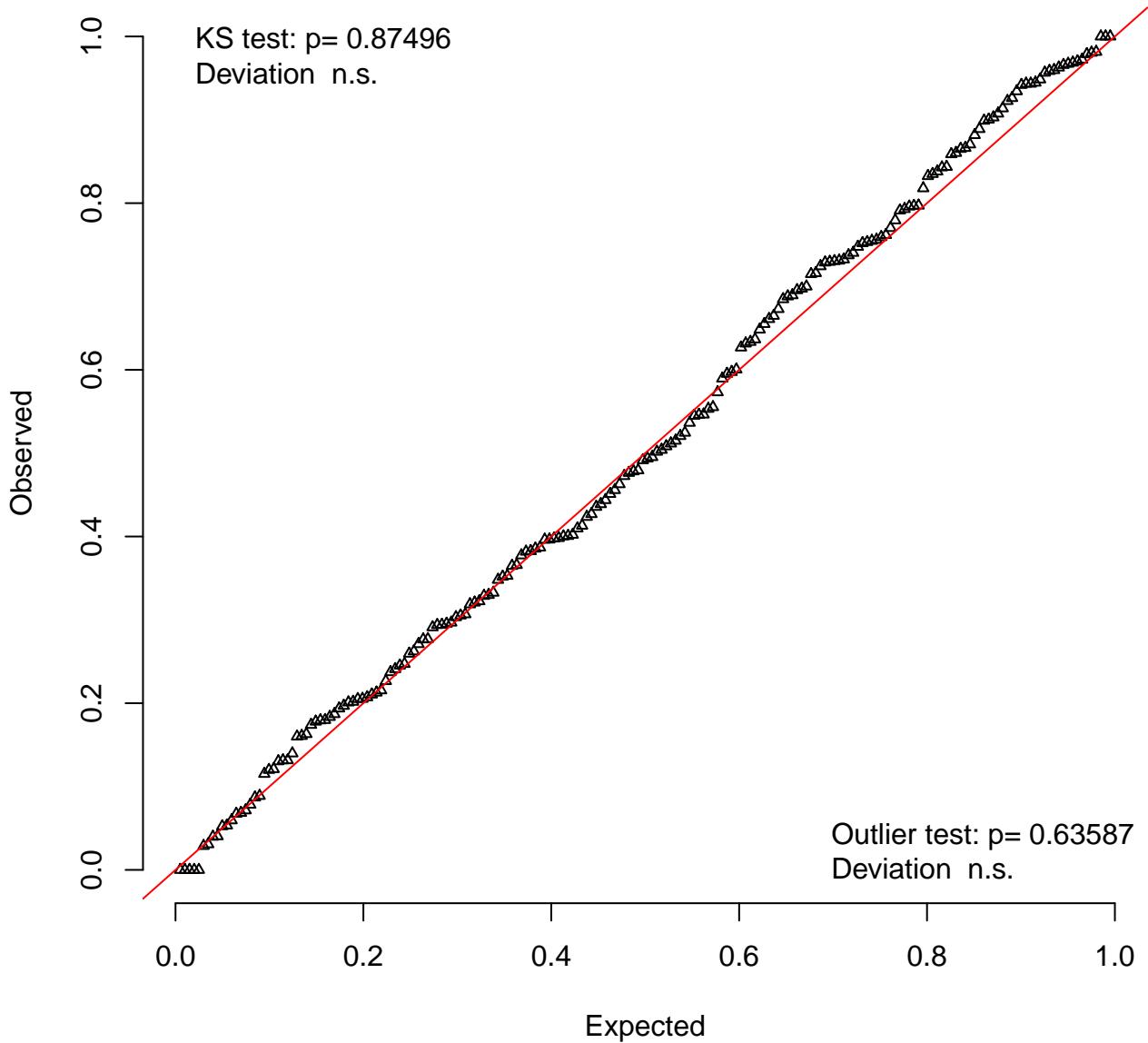


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

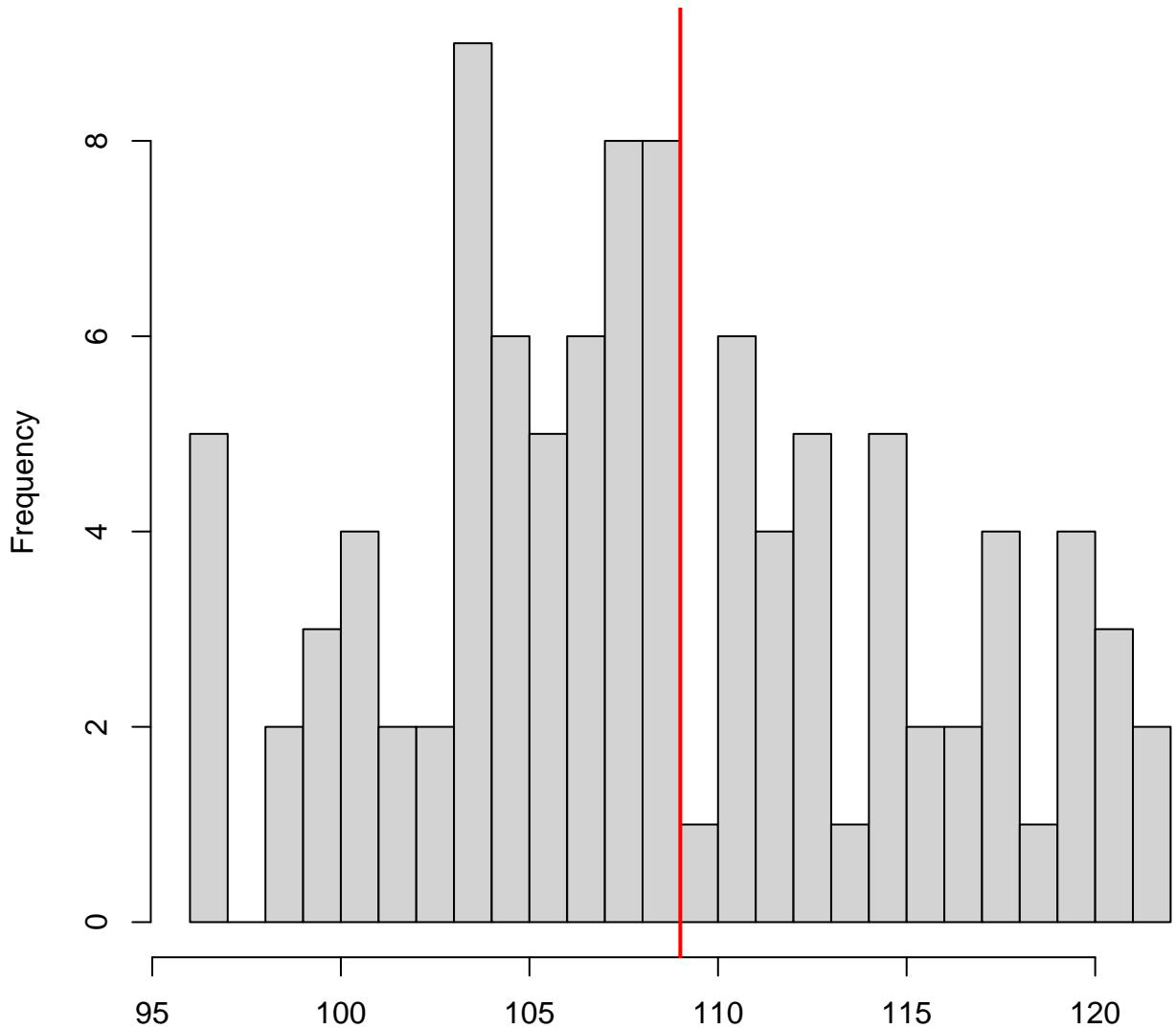


Simulated values, red line = fitted model. p-value (two.sided) = 0.92

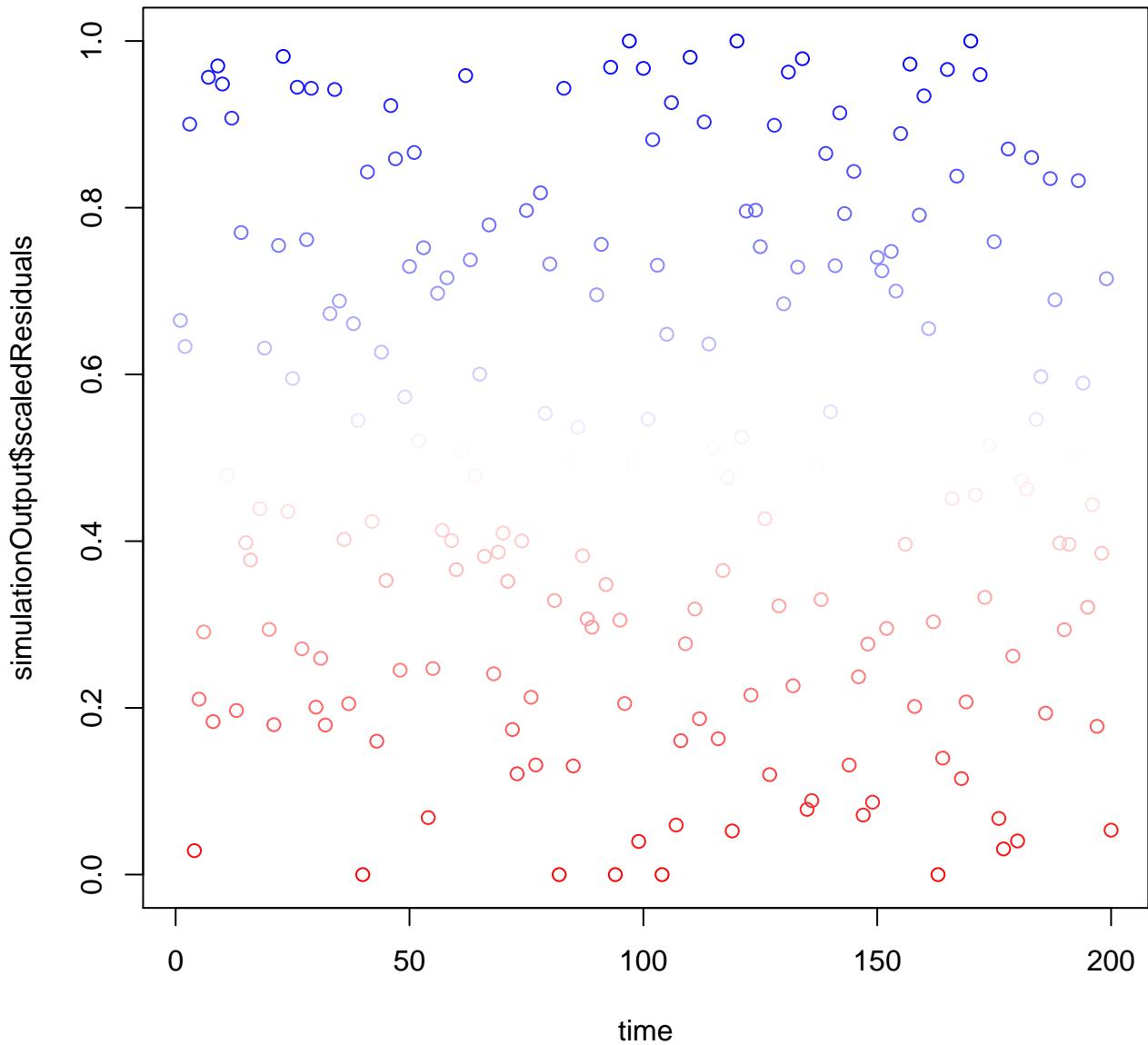
QQ plot residuals

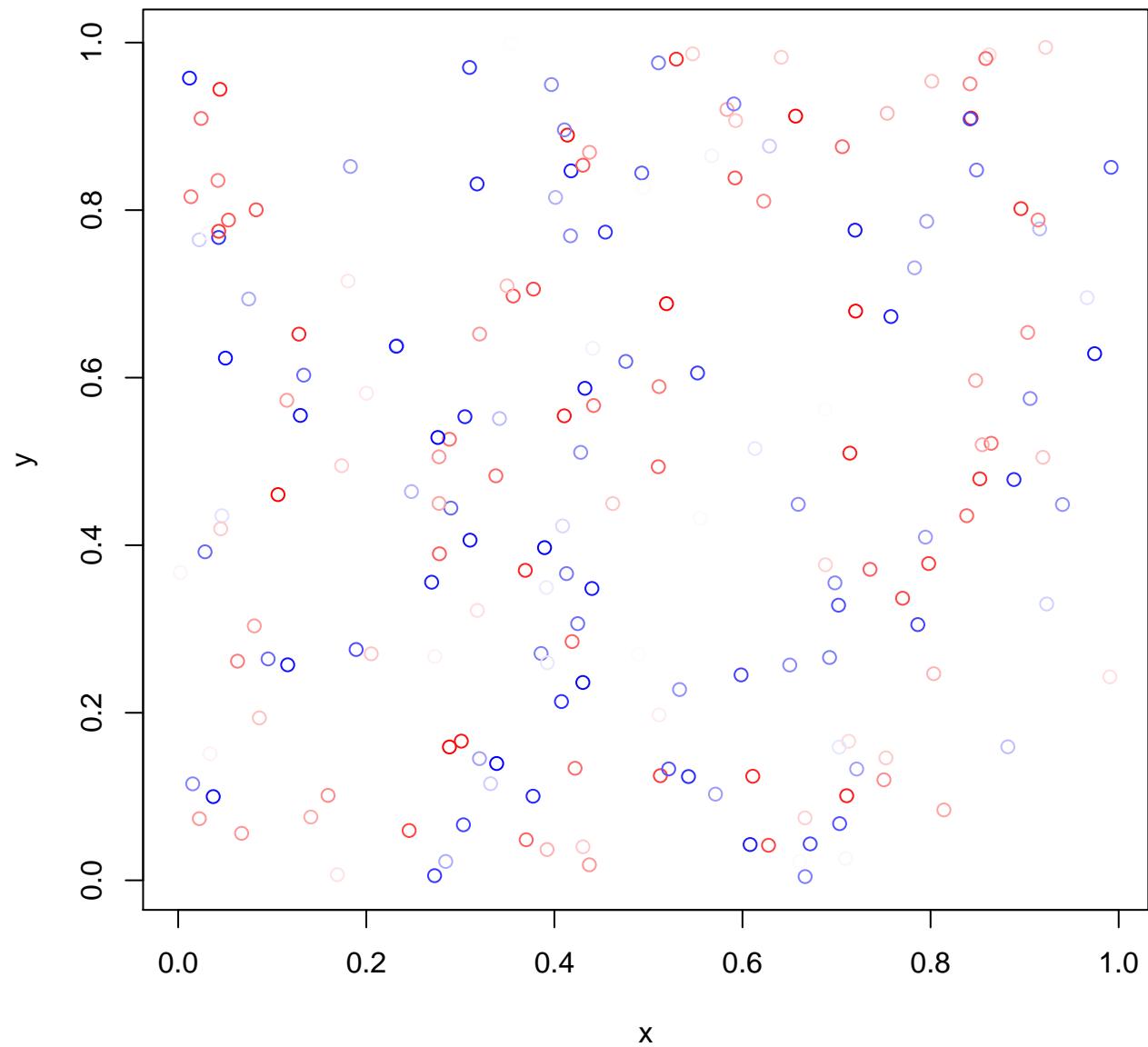


DHARMA zero-inflation test via comparison to expected zeros with simulation under $H_0 =$ fitted model

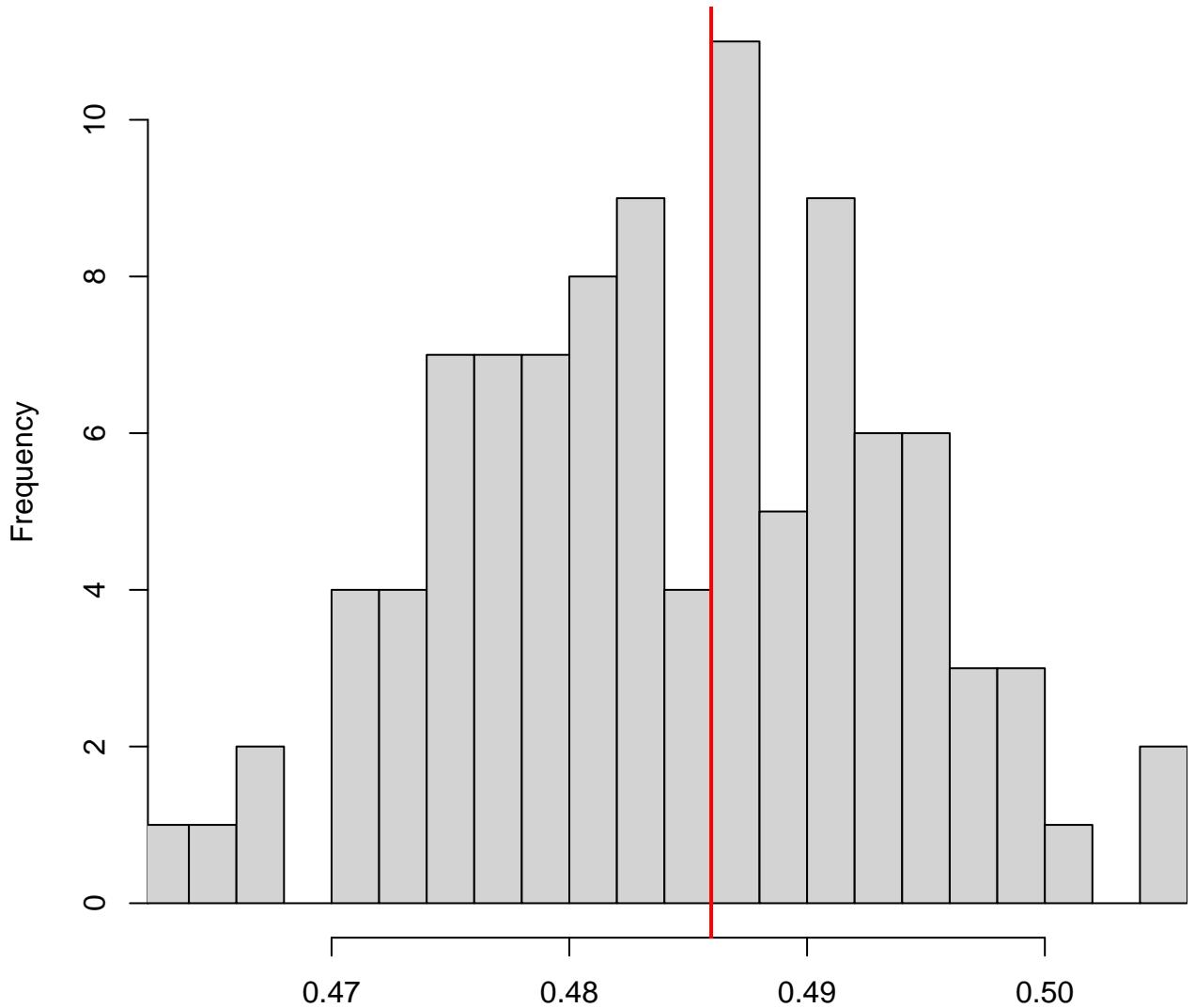


Simulated values, red line = fitted model. p-value (two.sided) = 0.96



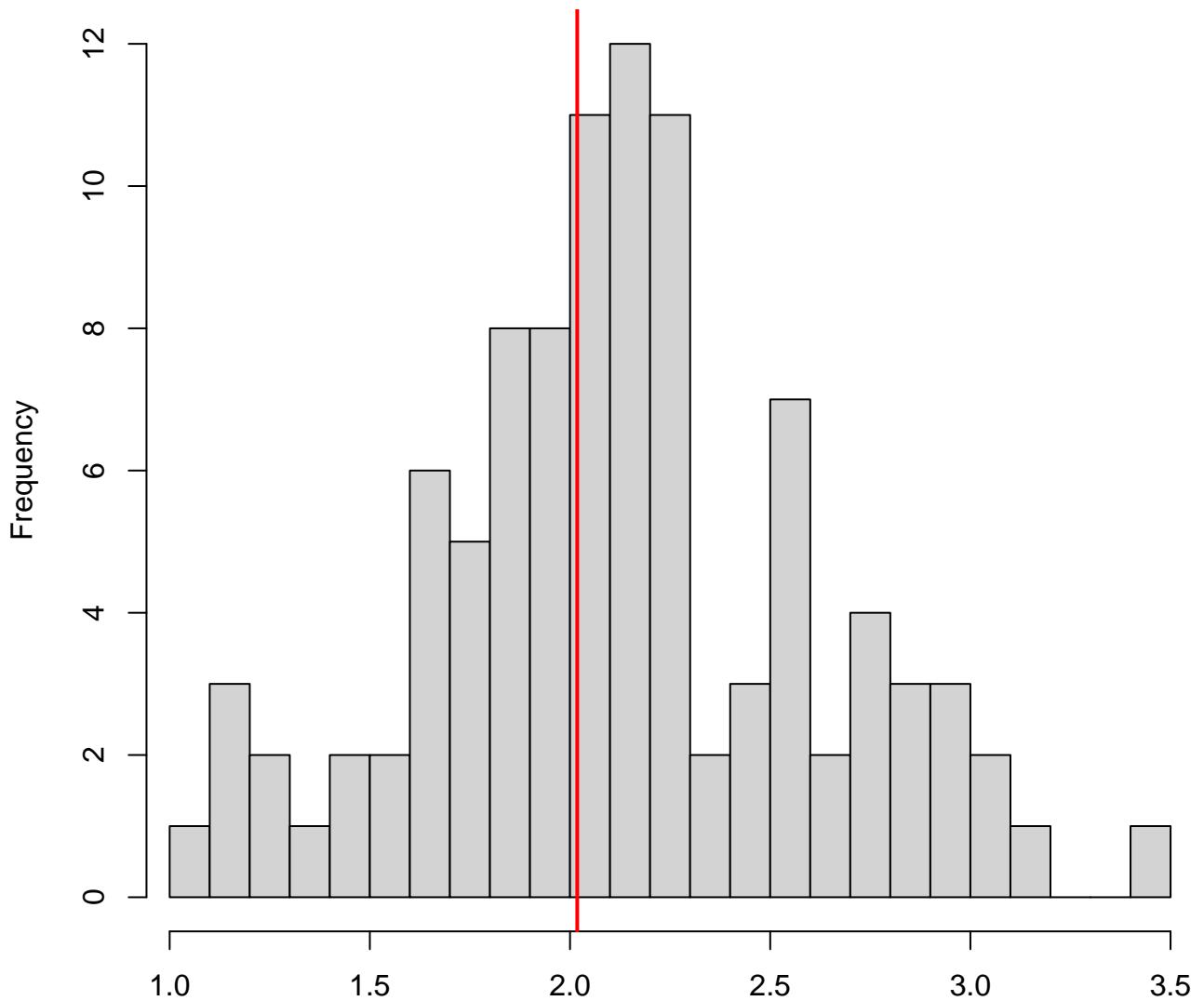


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.92

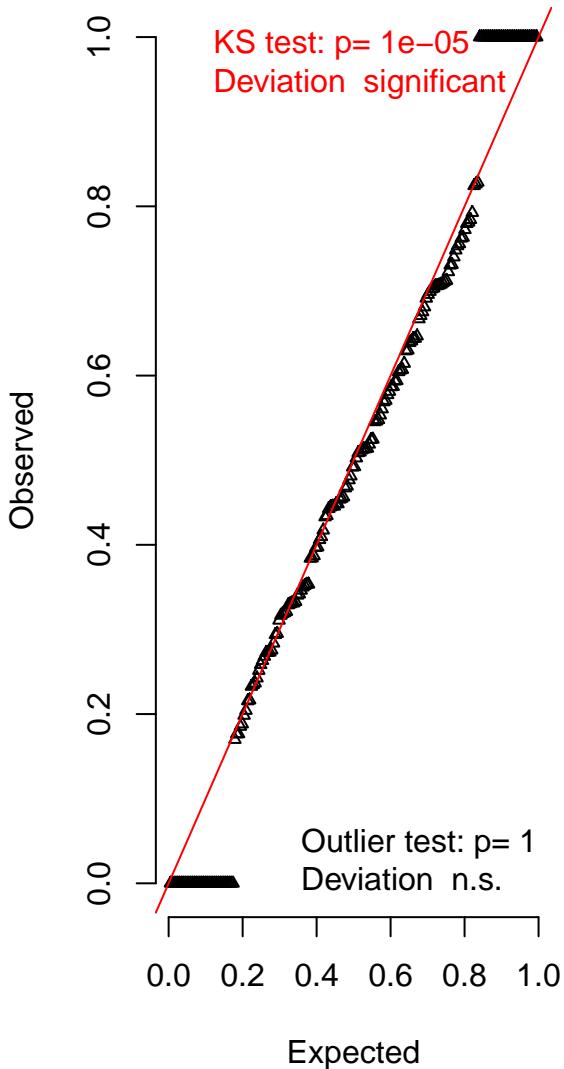
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



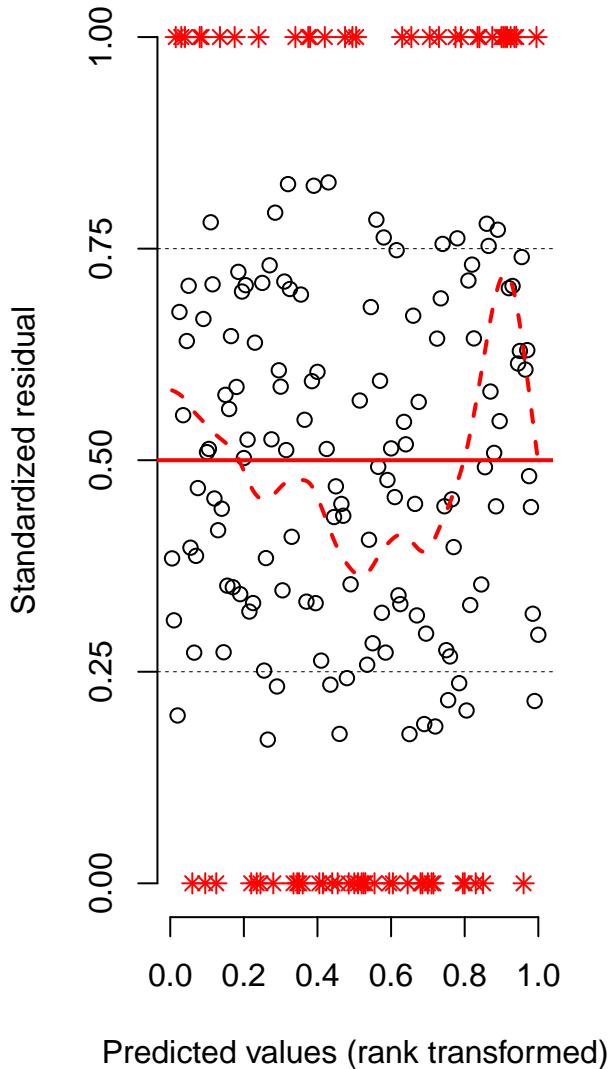
Simulated values, red line = fitted model. p-value (two.sided) = 0.8

DHARMA scaled residual plots

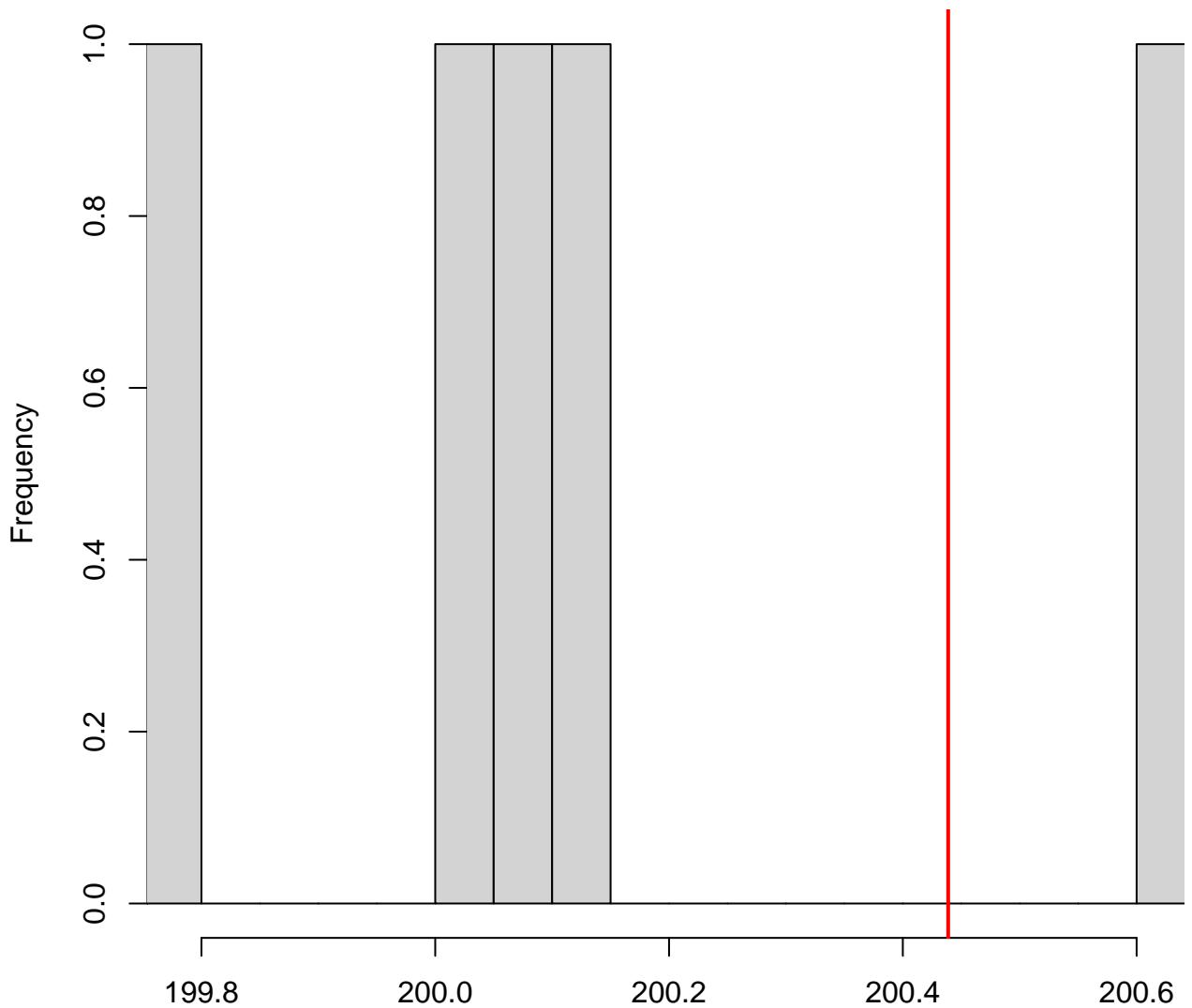
QQ plot residuals



Residual vs. predicted lines should match

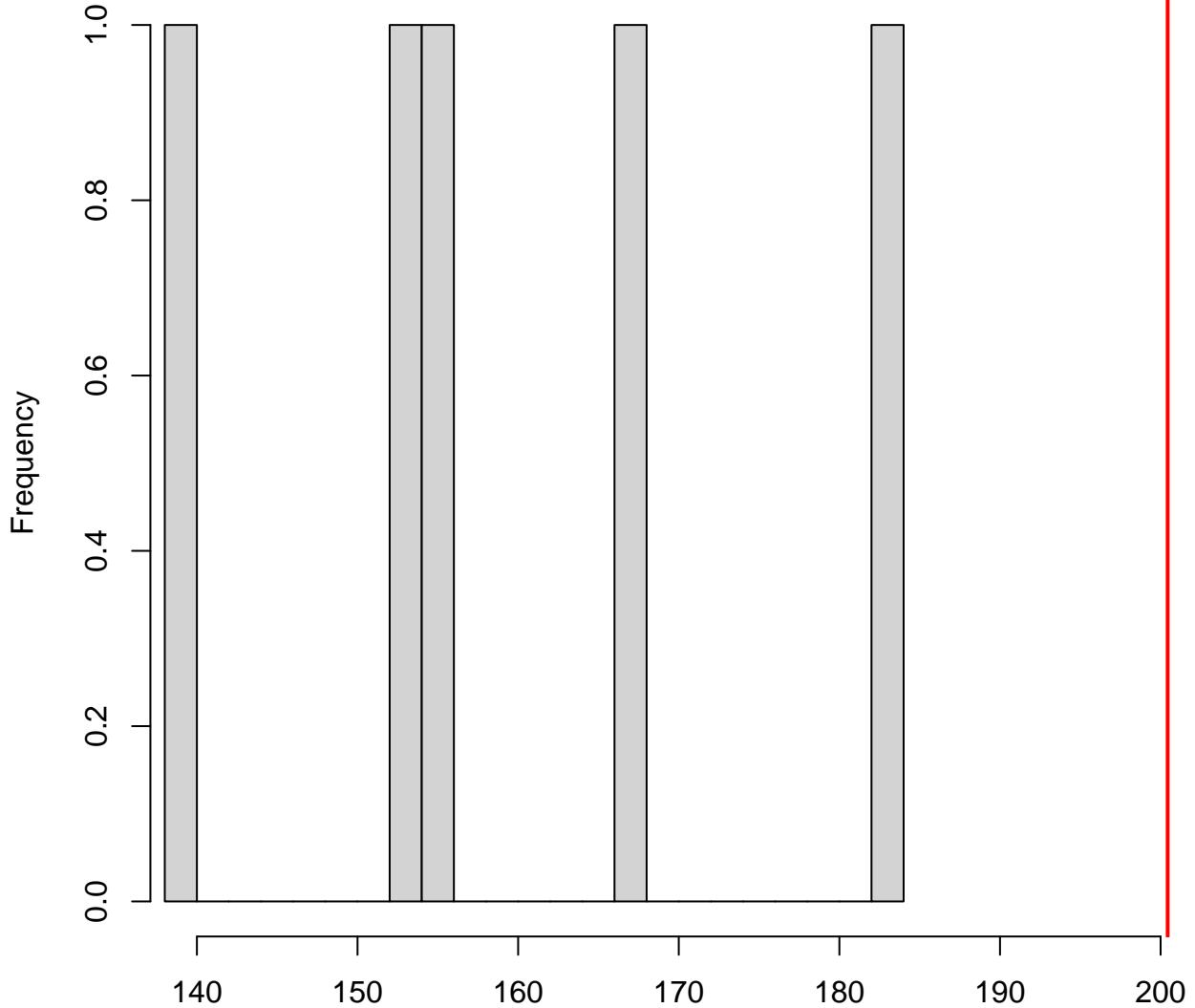


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



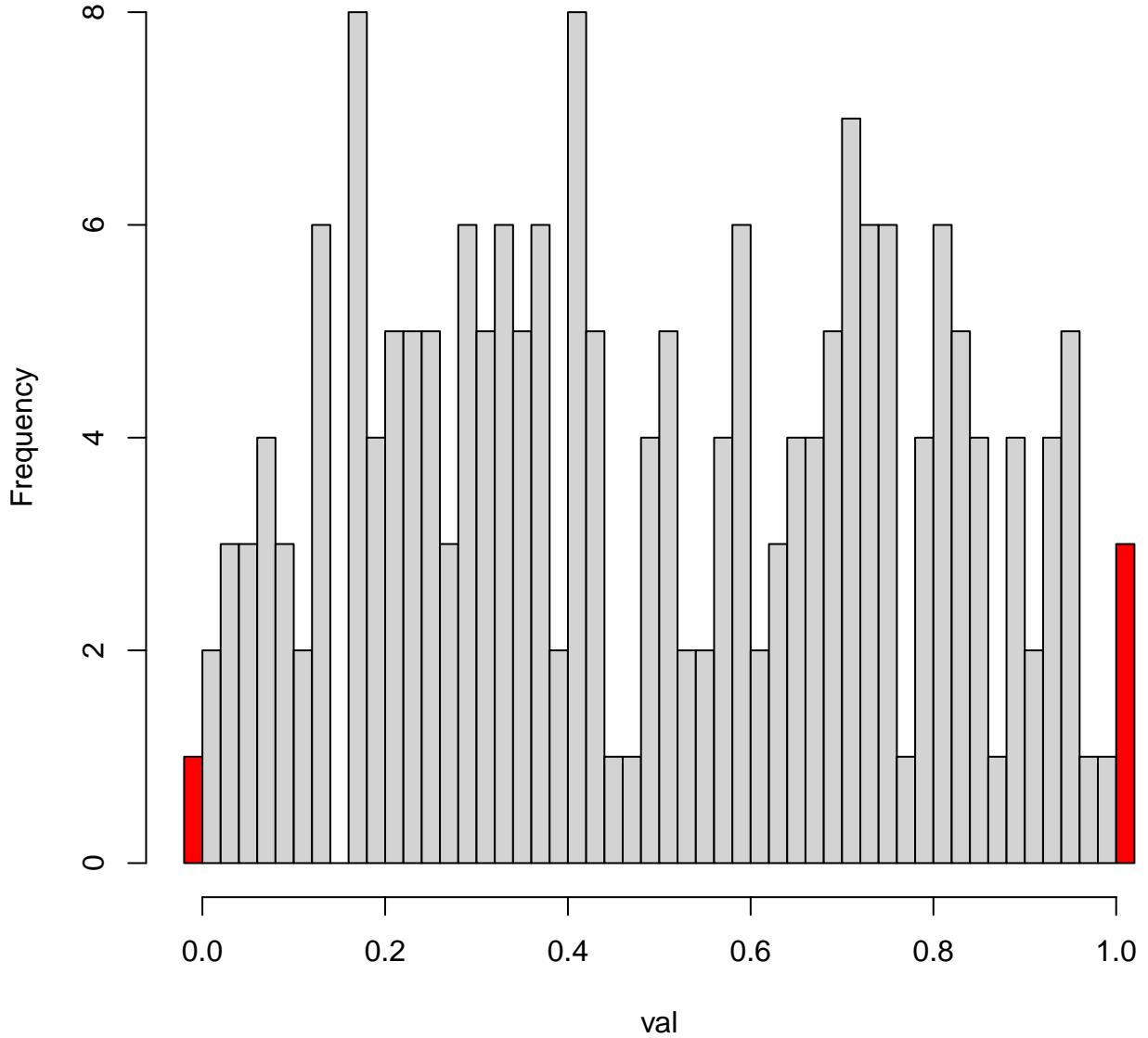
Simulated values, red line = fitted model. p-value (two.sided) = 0.4

DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted

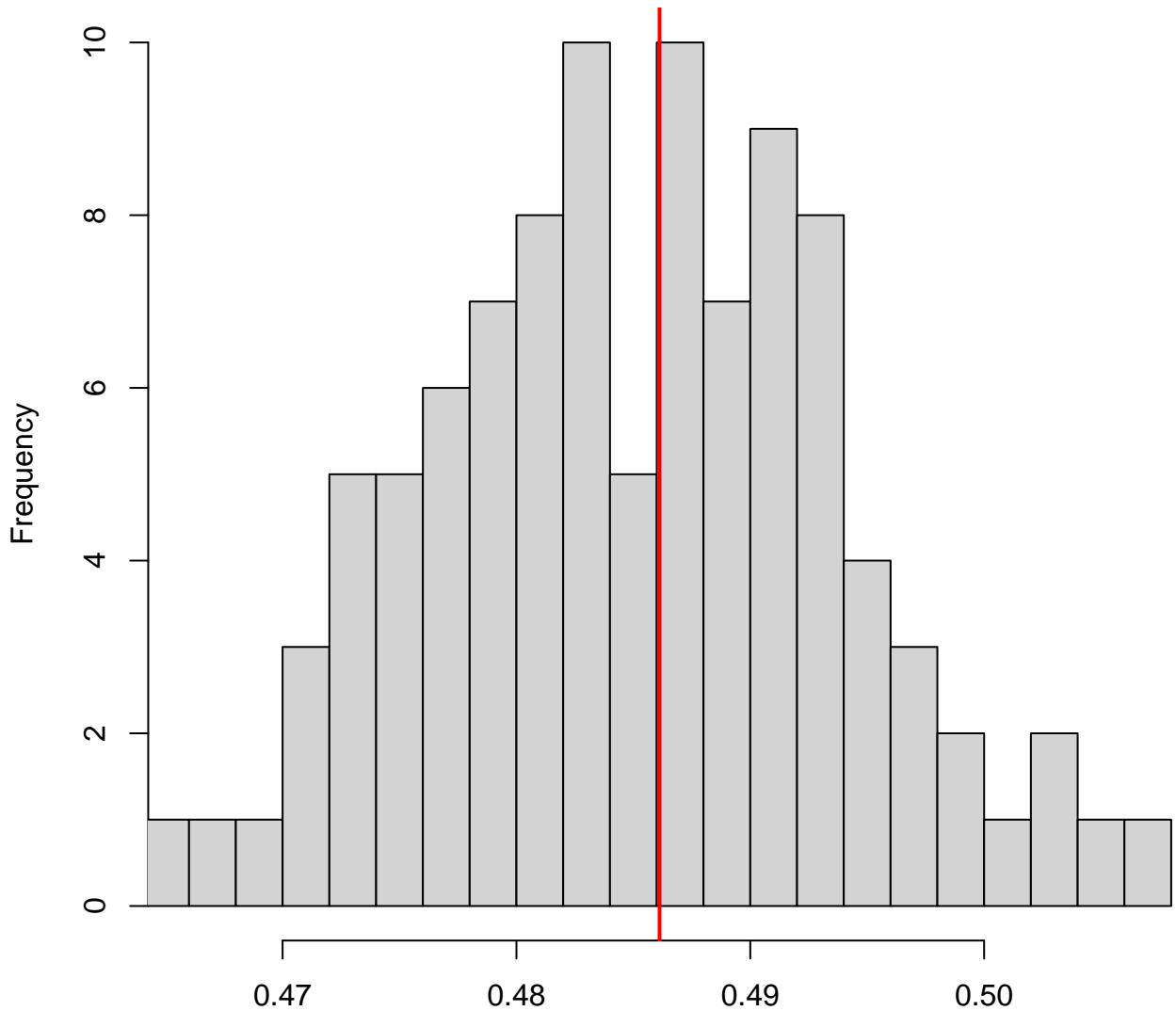


Simulated values, red line = fitted model. p-value (two.sided) = 0

Hist of DHARMA residuals
Outliers are marked red

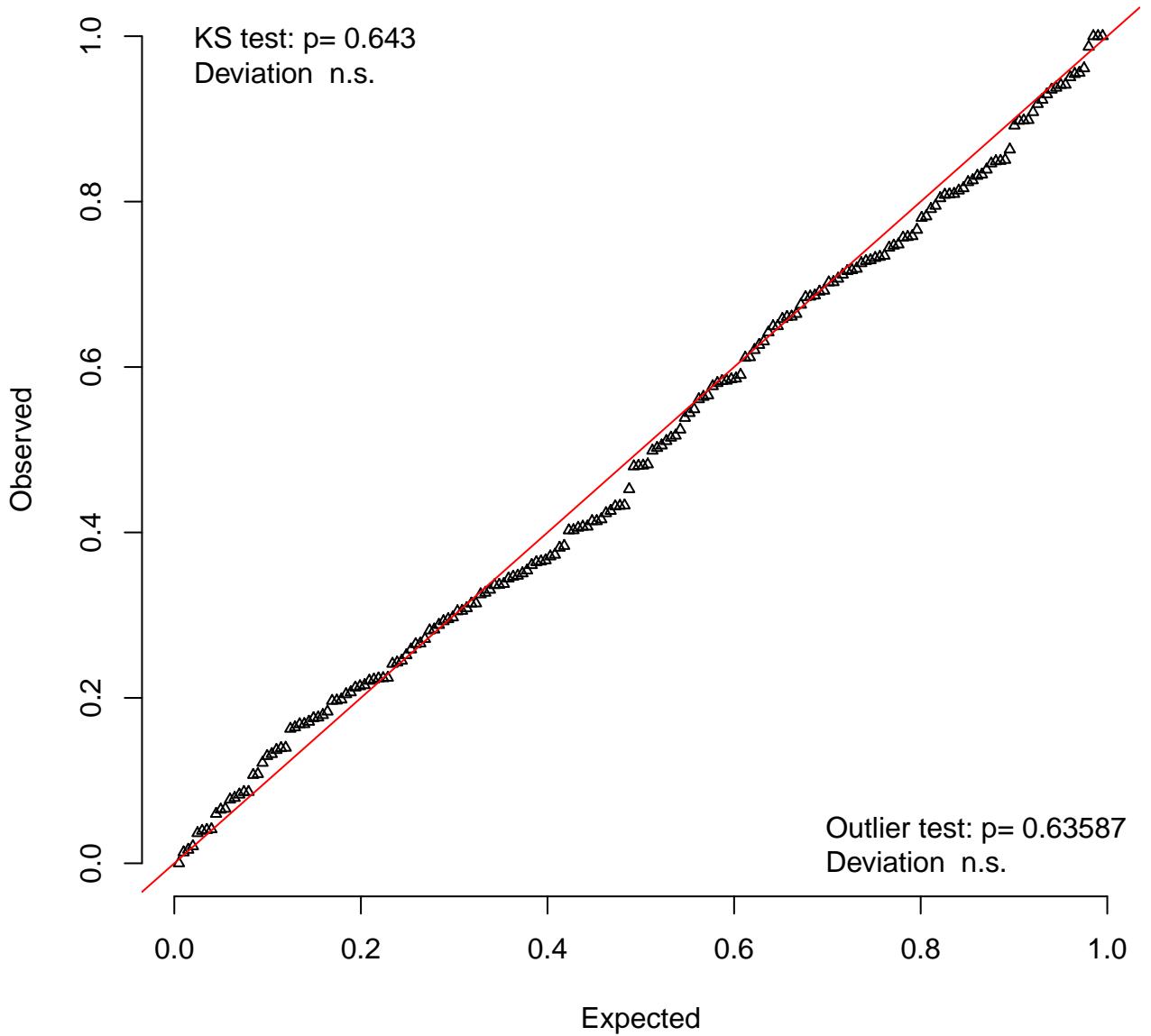


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

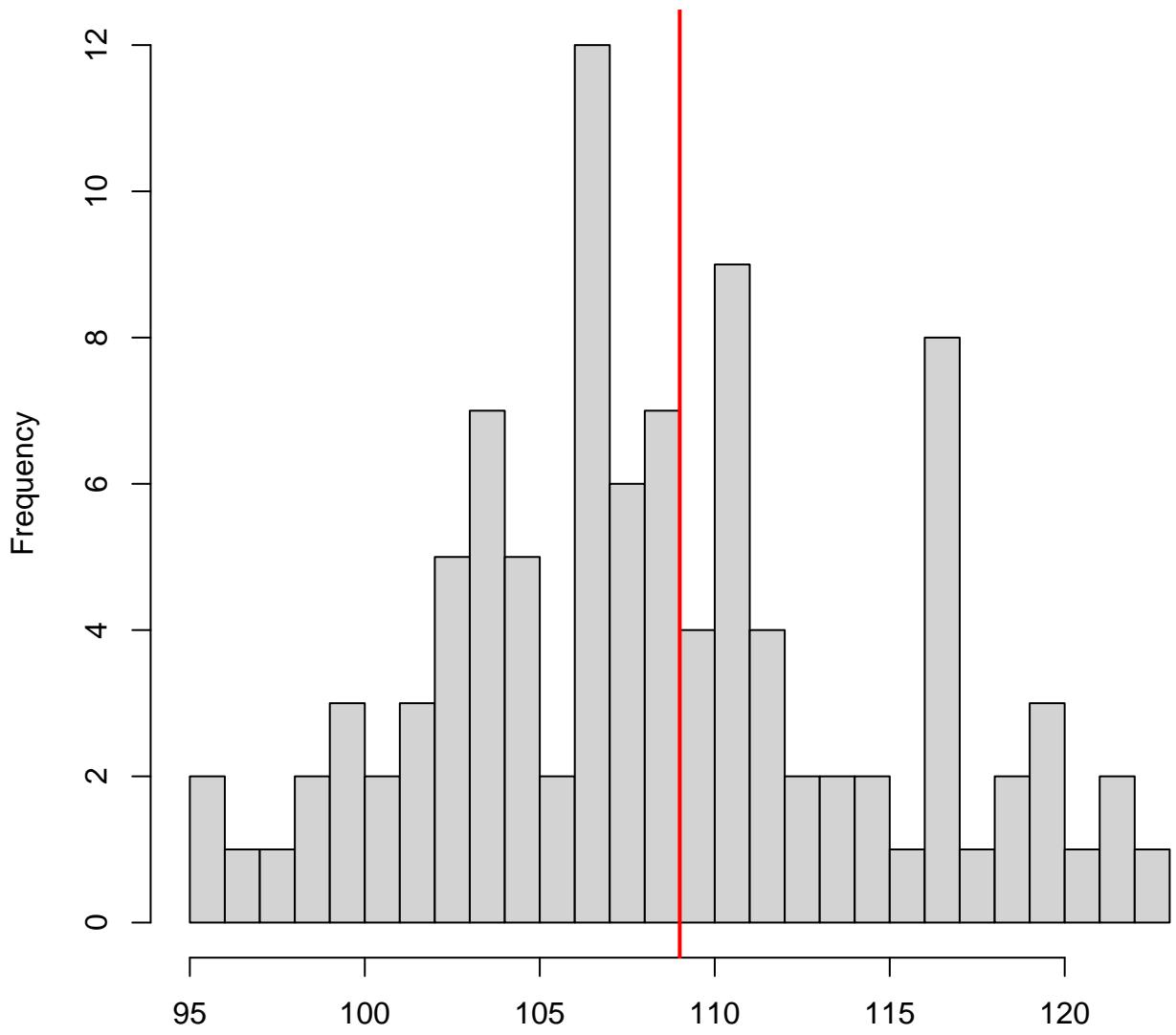


Simulated values, red line = fitted model. p-value (two.sided) = 0.94

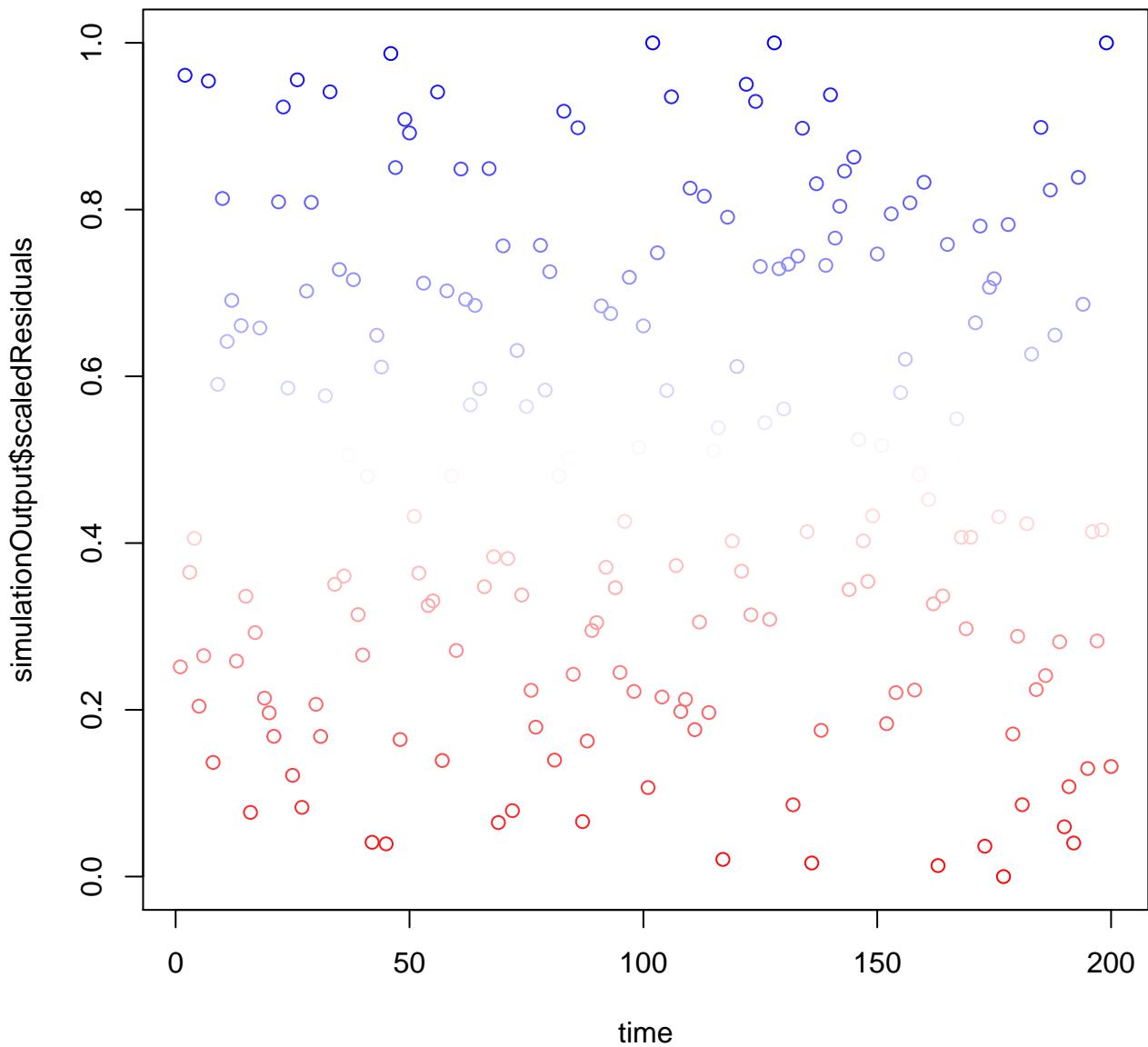
QQ plot residuals

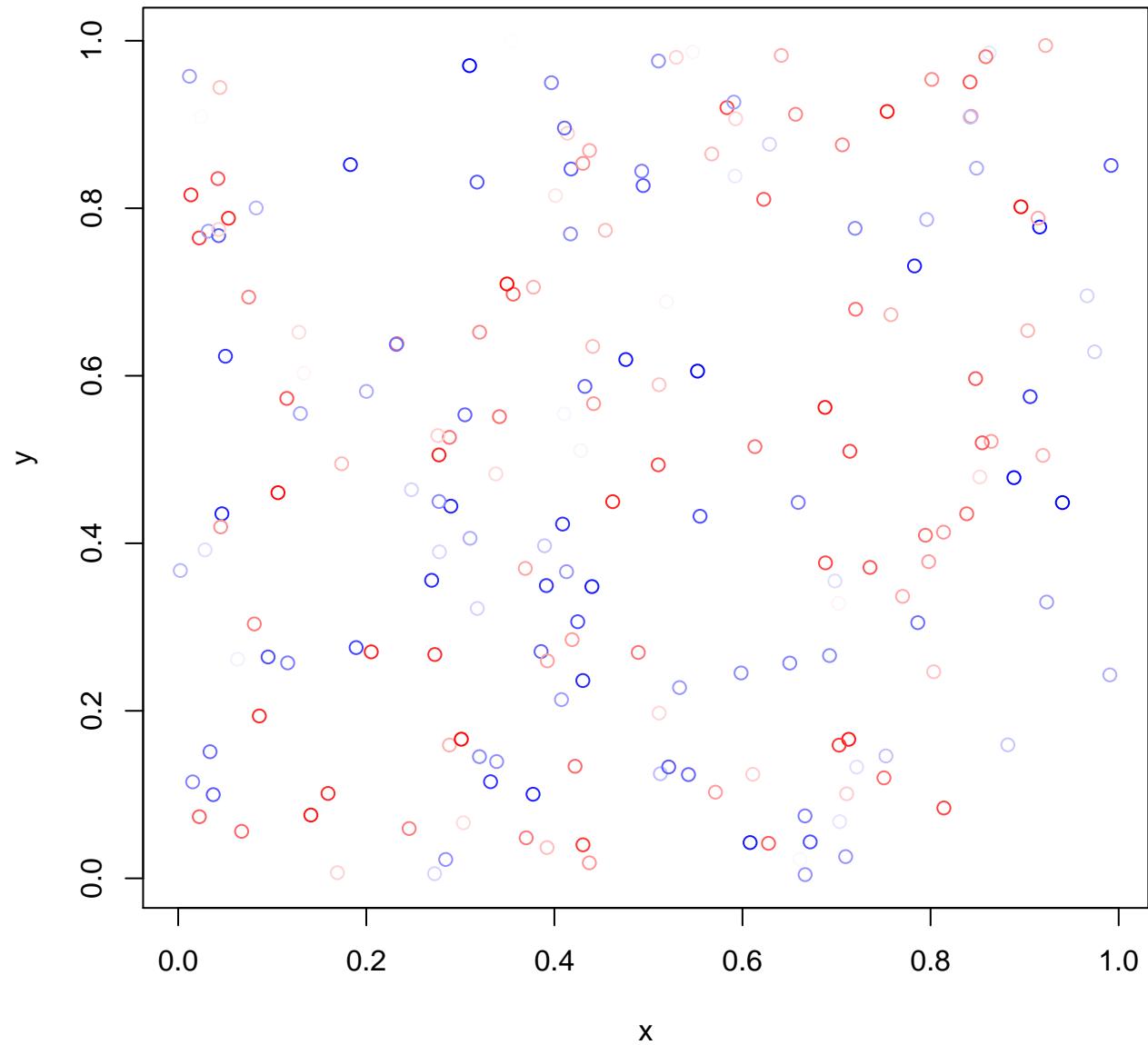


DHARMa zero-inflation test via comparison to expected zeros with simulation under $H_0 =$ fitted model

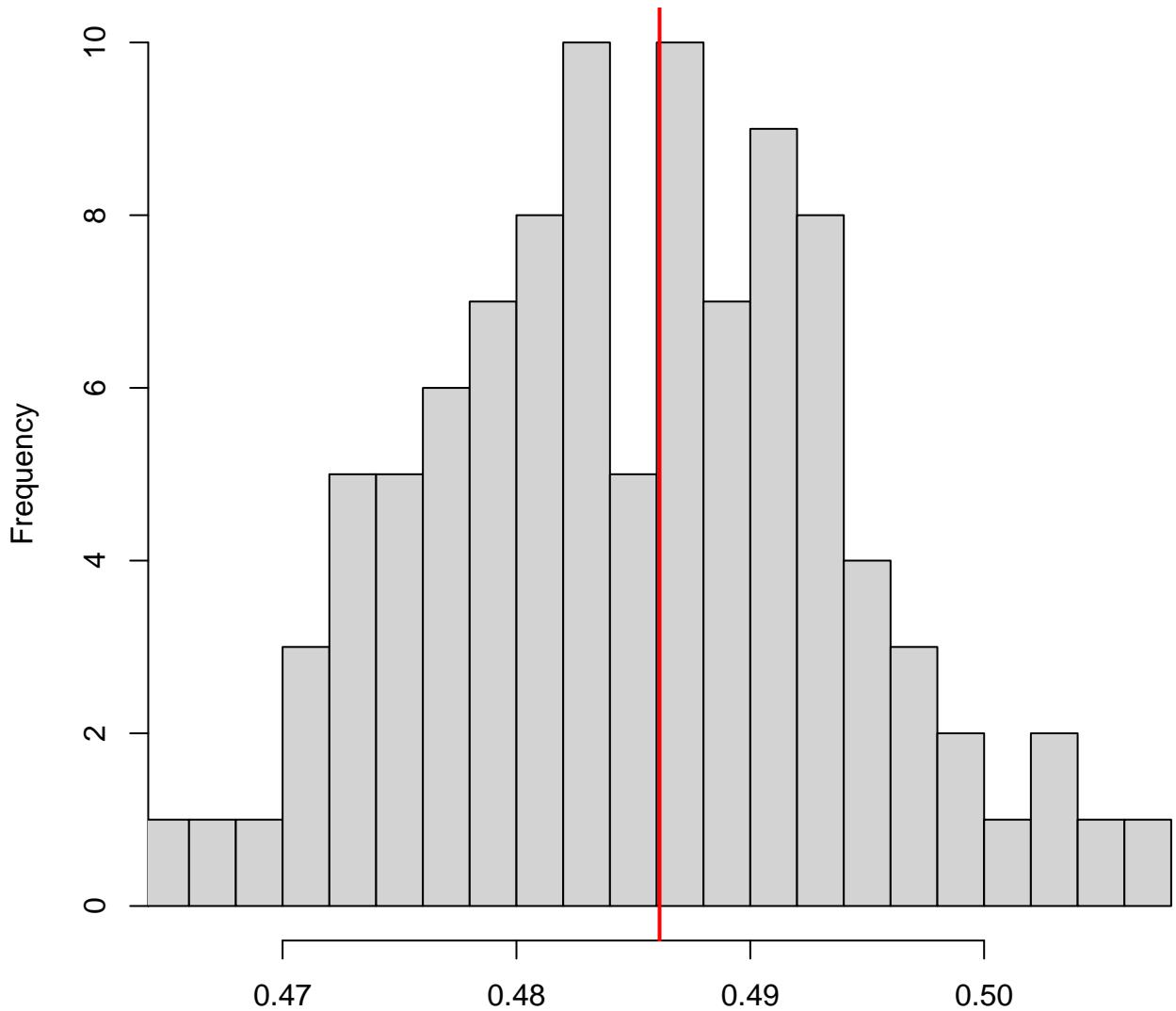


Simulated values, red line = fitted model. p-value (two.sided) = 0.98



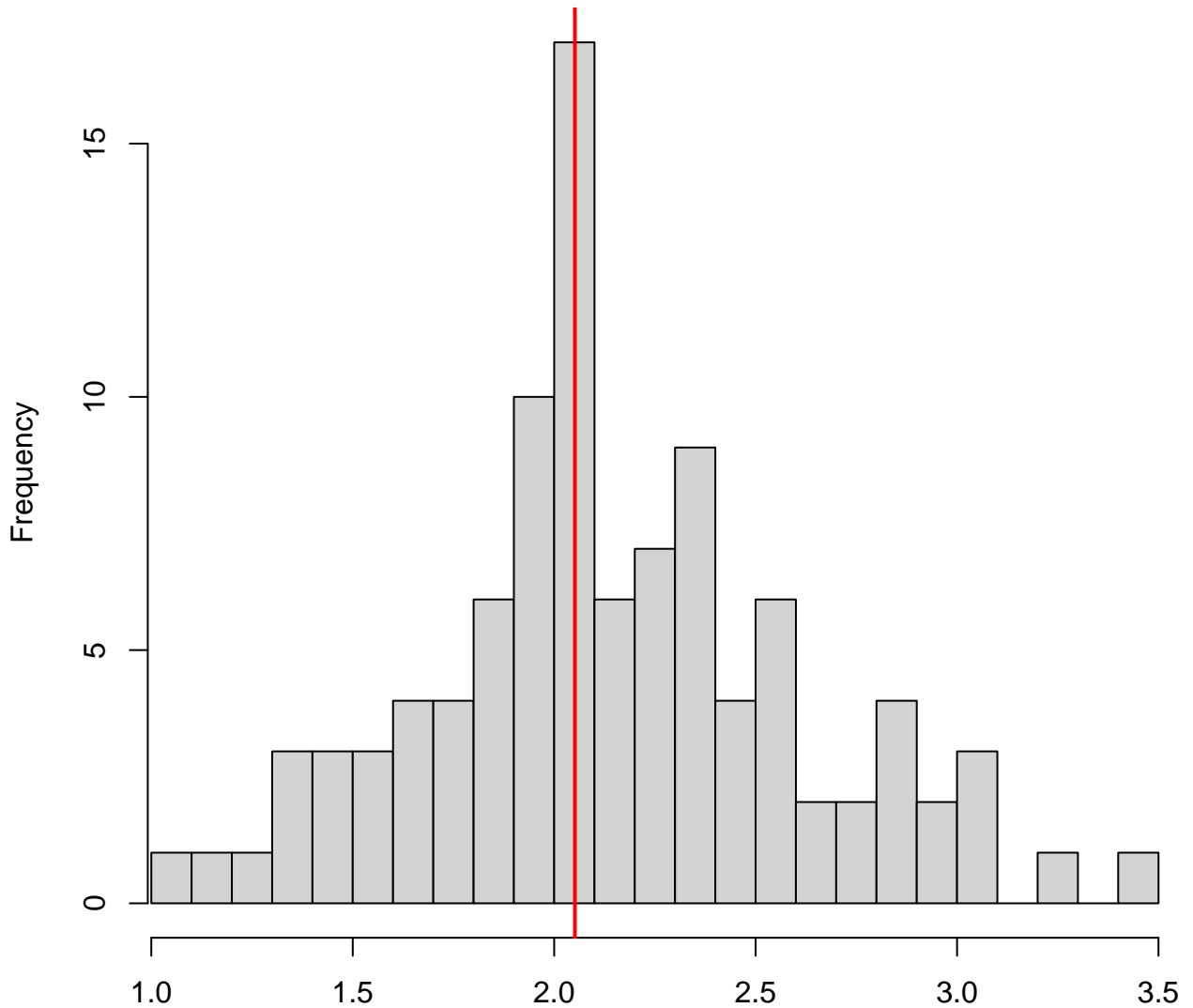


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.94

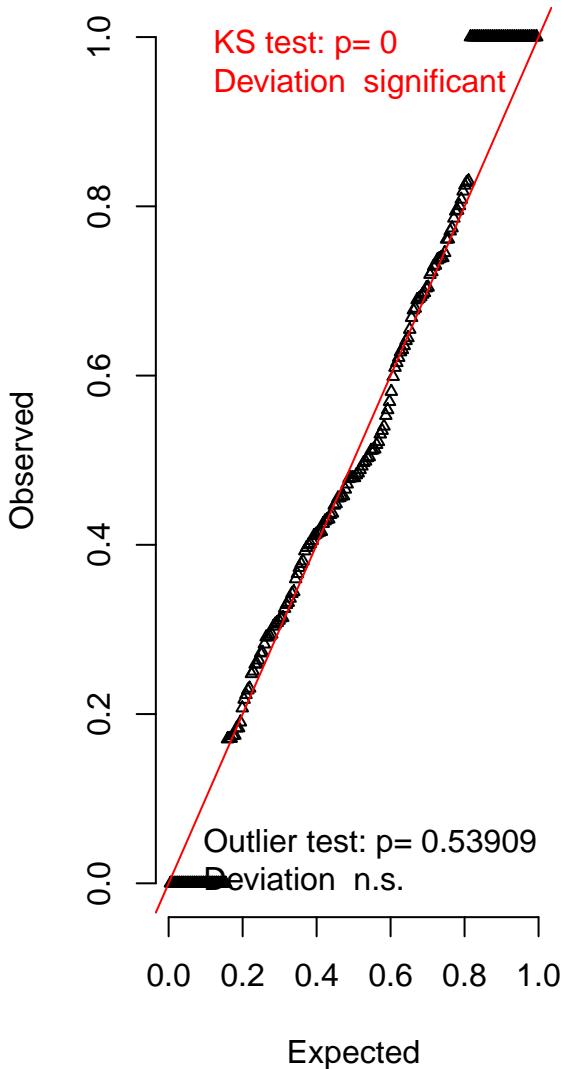
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



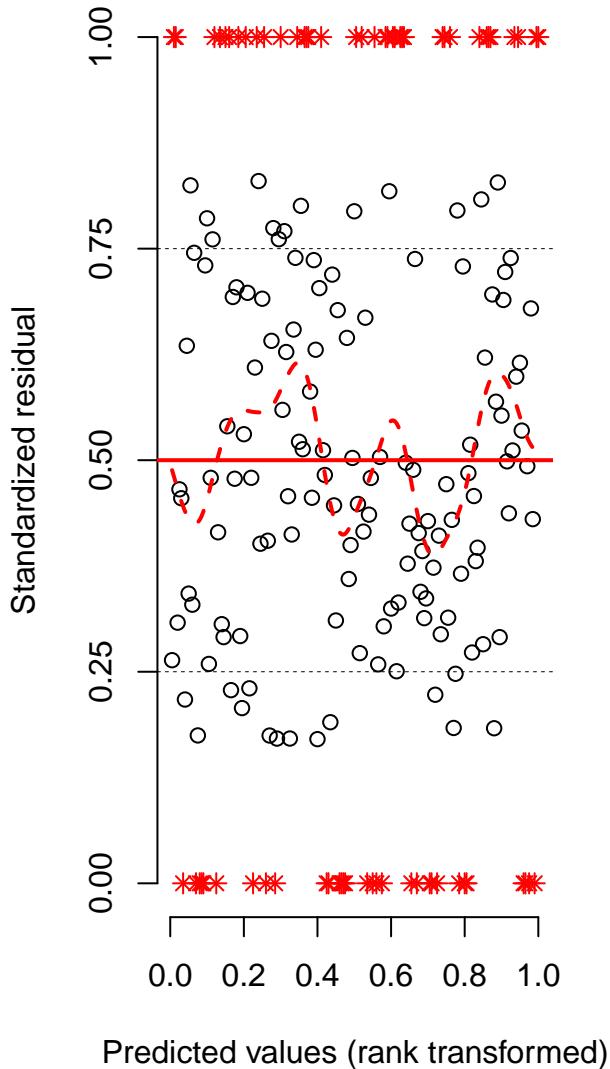
Simulated values, red line = fitted model. p-value (two.sided) = 0.96

DHARMA scaled residual plots

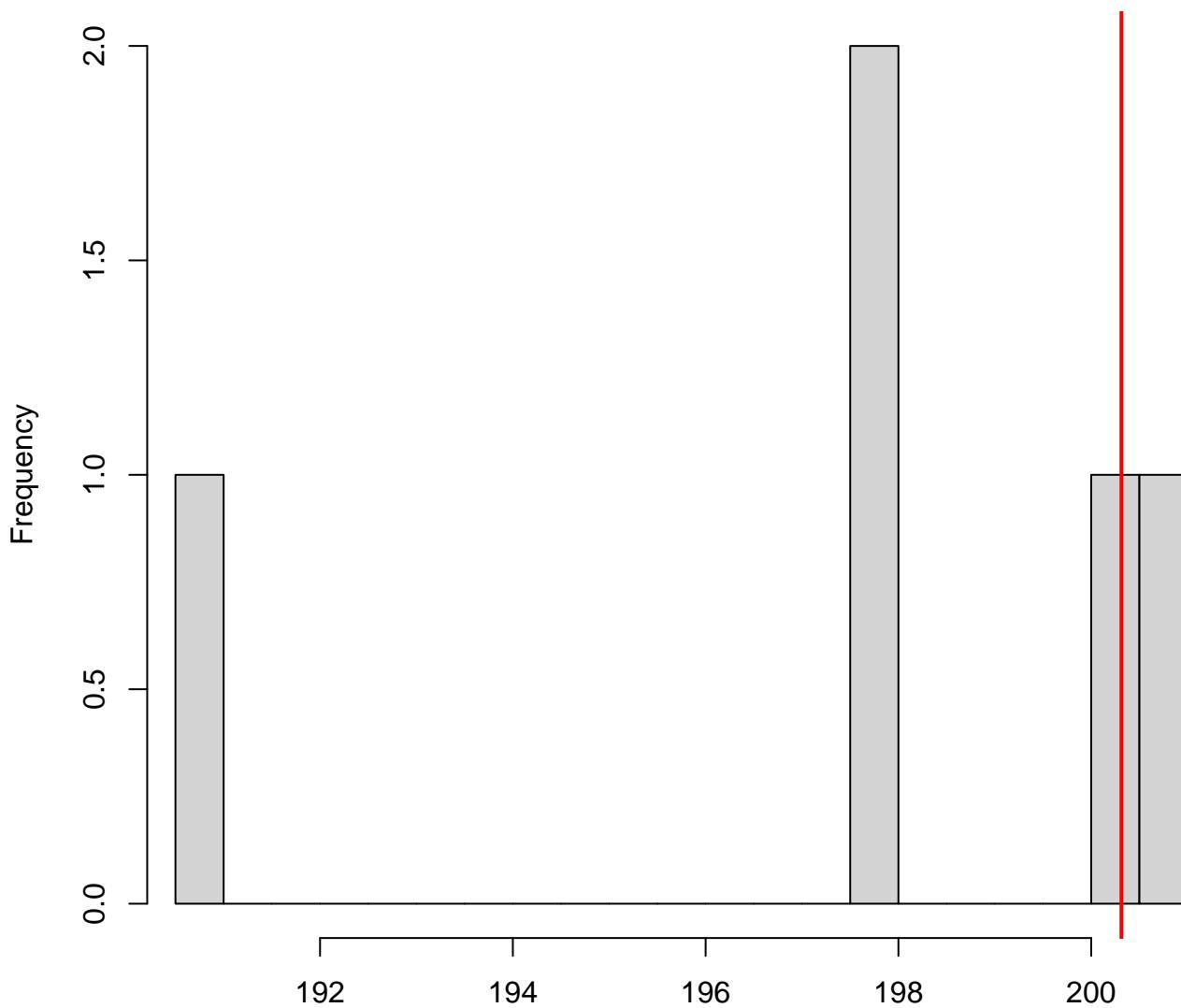
QQ plot residuals



Residual vs. predicted lines should match

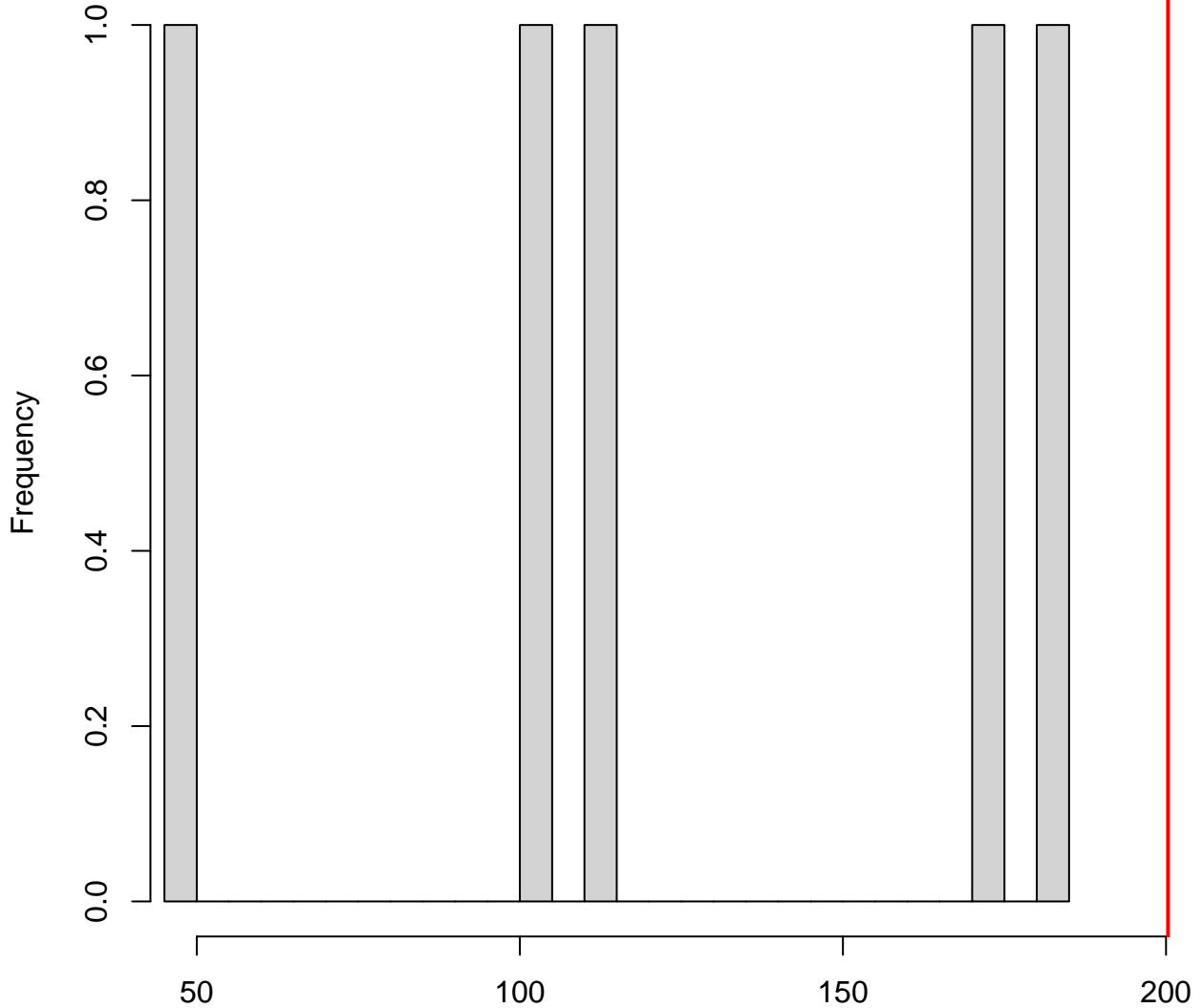


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



Simulated values, red line = fitted model. p-value (two.sided) = 0.4

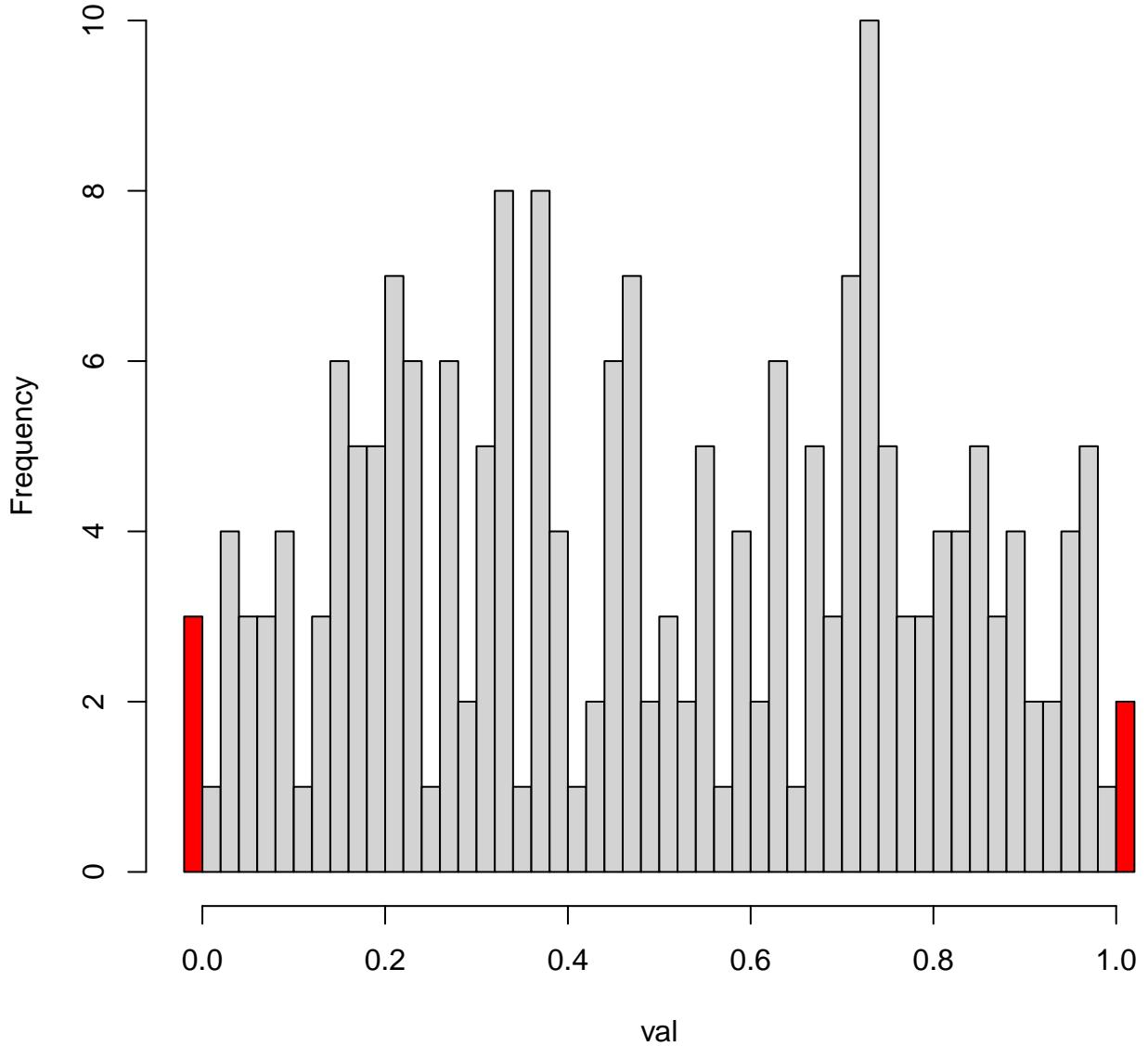
DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



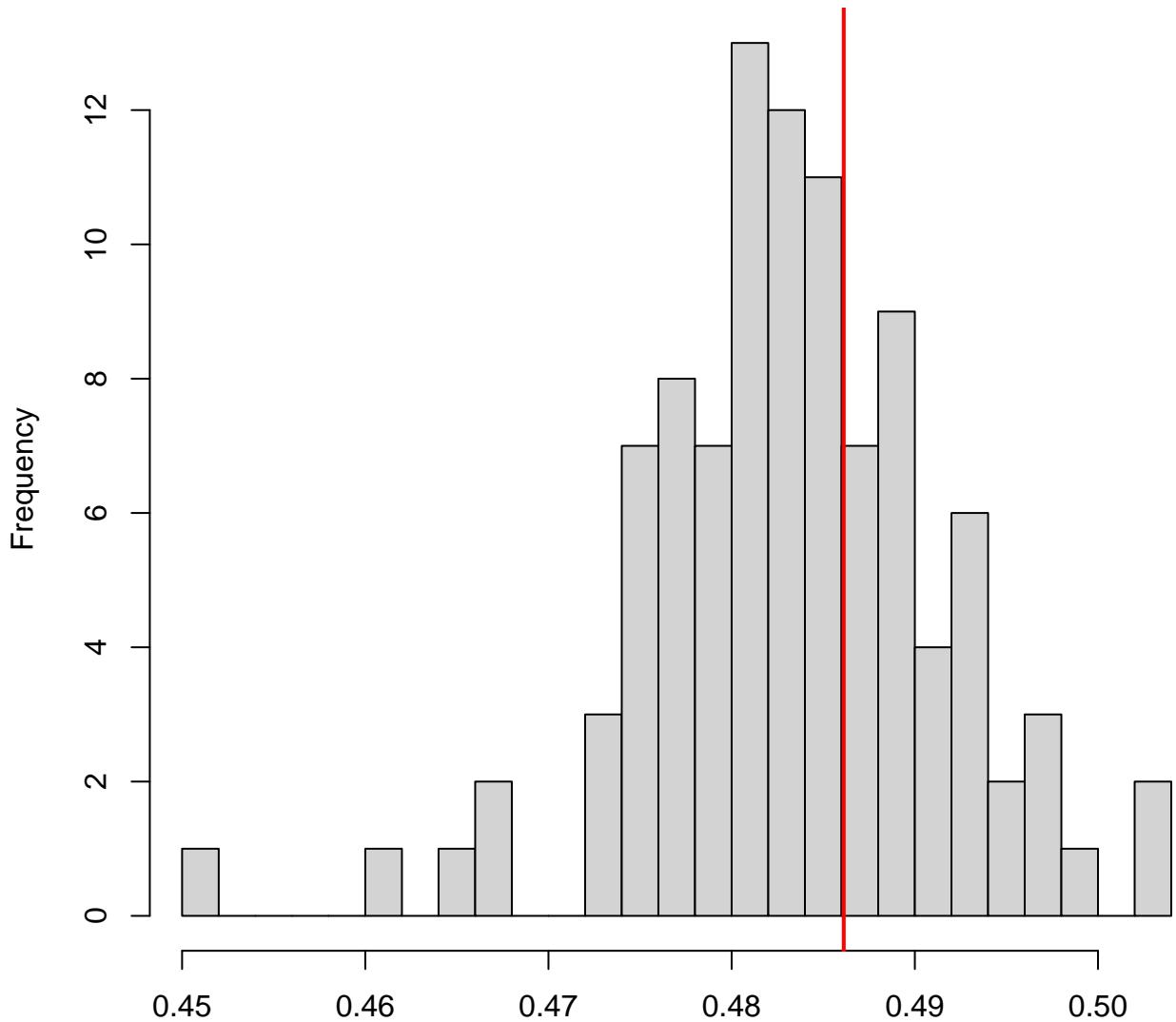
Simulated values, red line = fitted model. p-value (two.sided) = 0

Hist of DHARMA residuals

Outliers are marked red

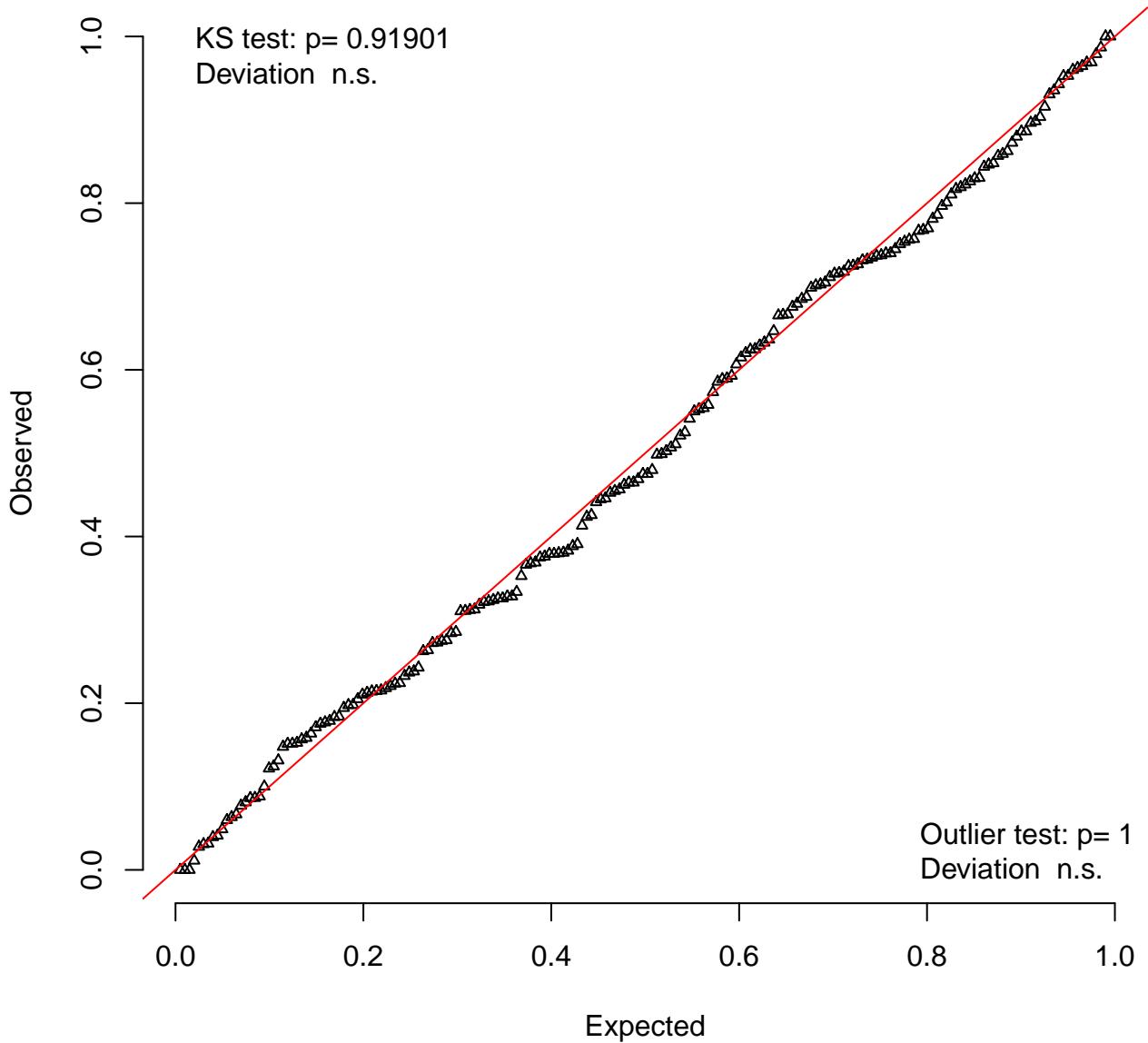


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

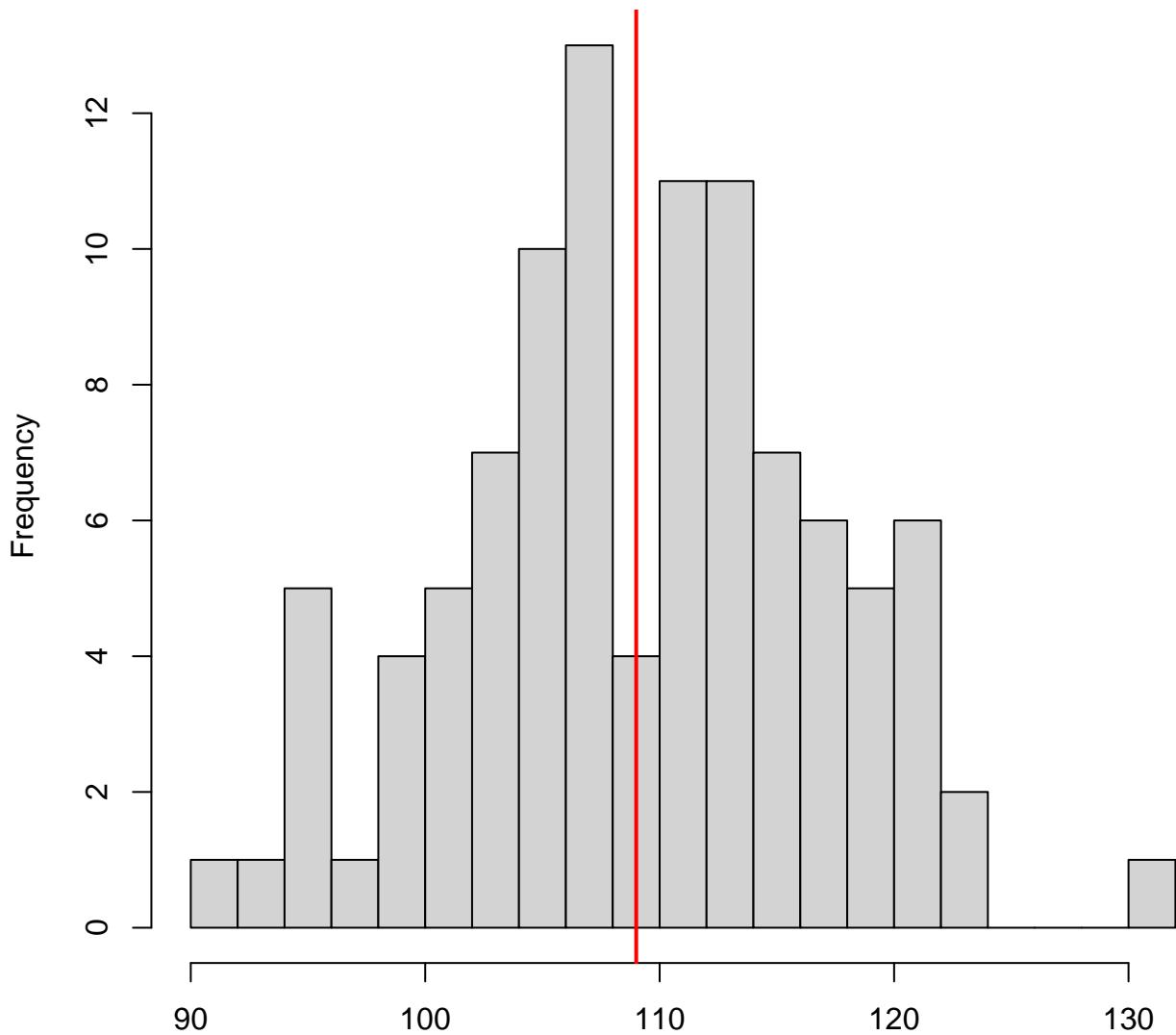


Simulated values, red line = fitted model. p-value (two.sided) = 0.68

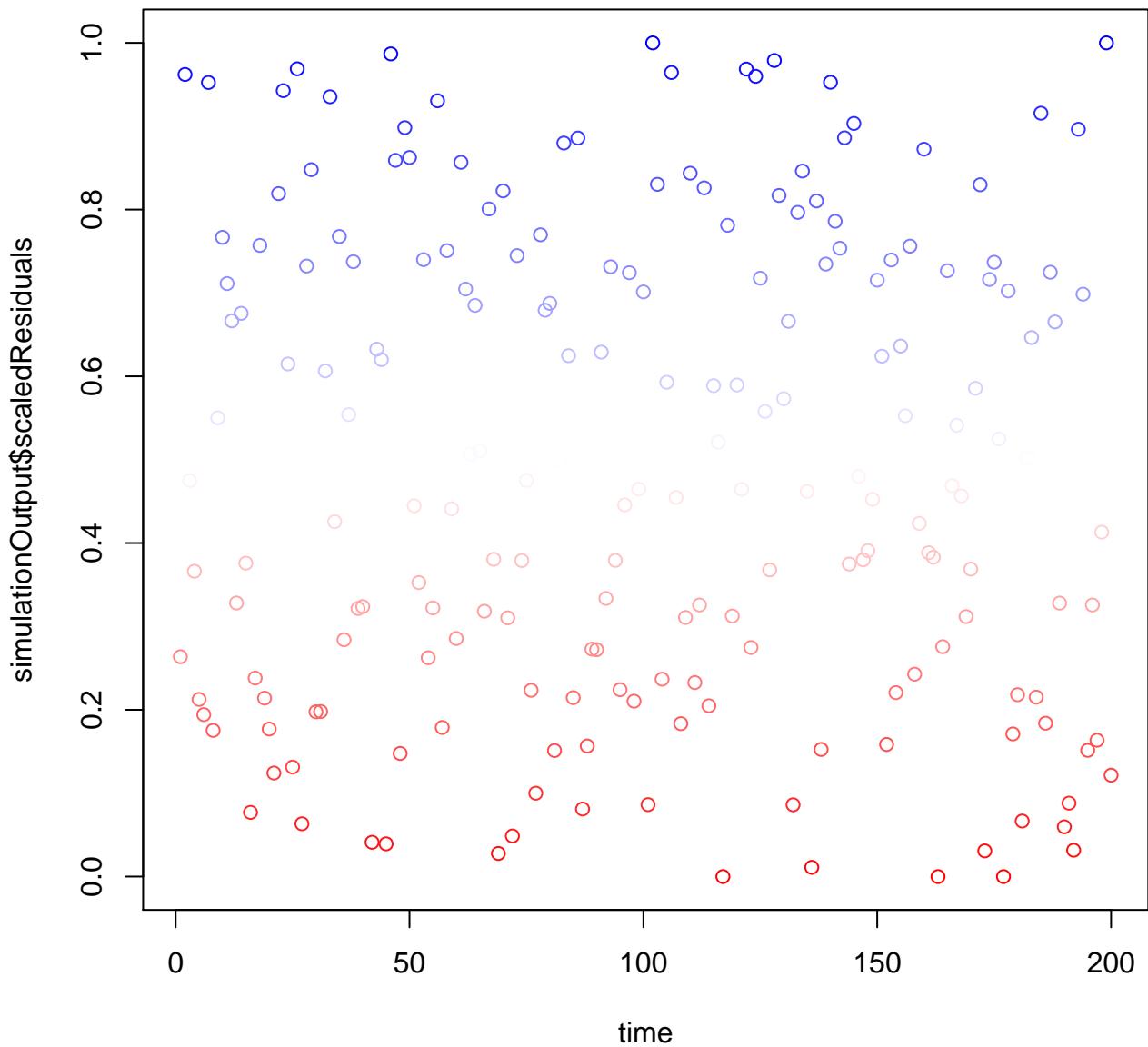
QQ plot residuals

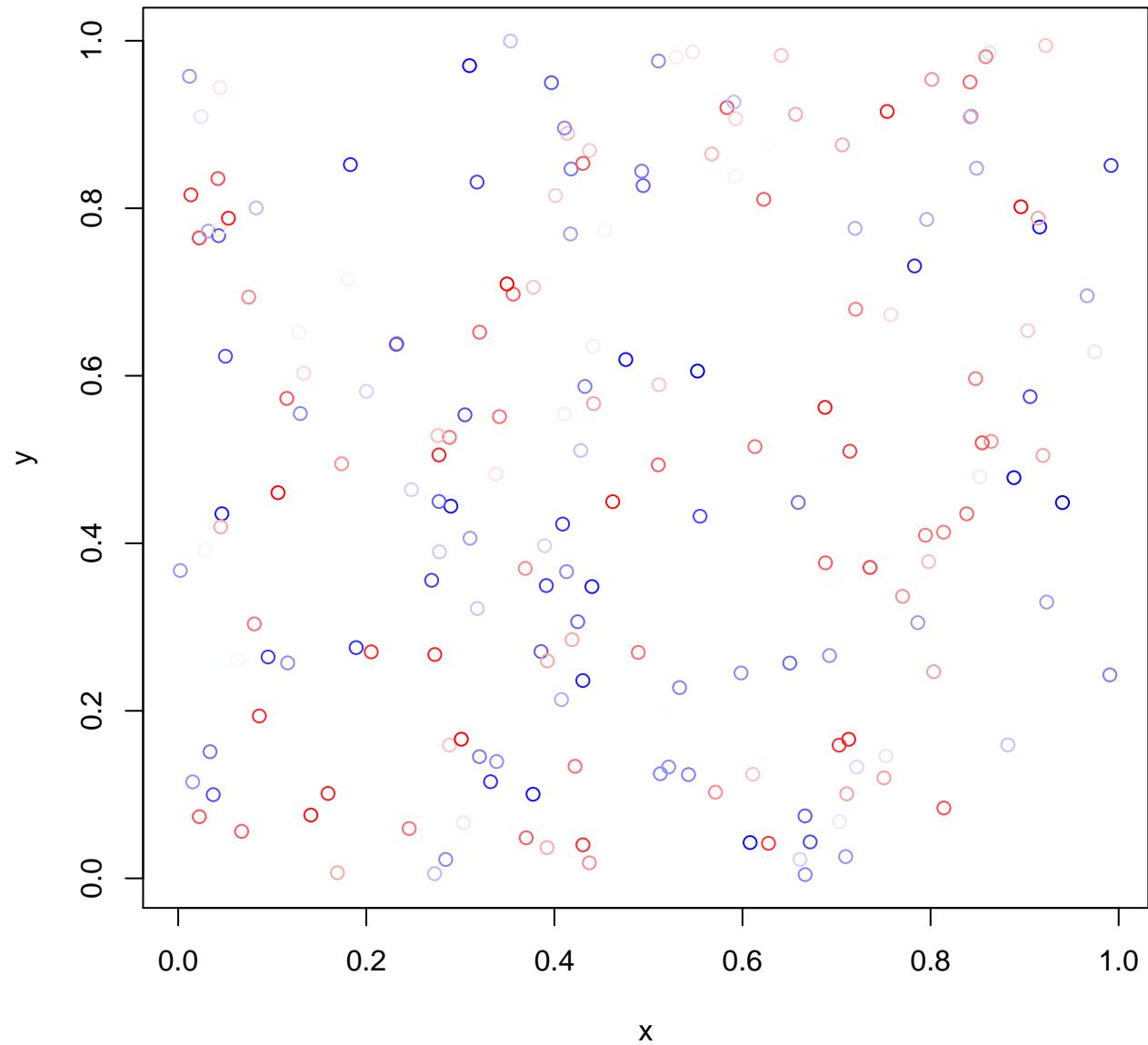


DHARMA zero-inflation test via comparison to expected zeros with simulation under $H_0 =$ fitted model

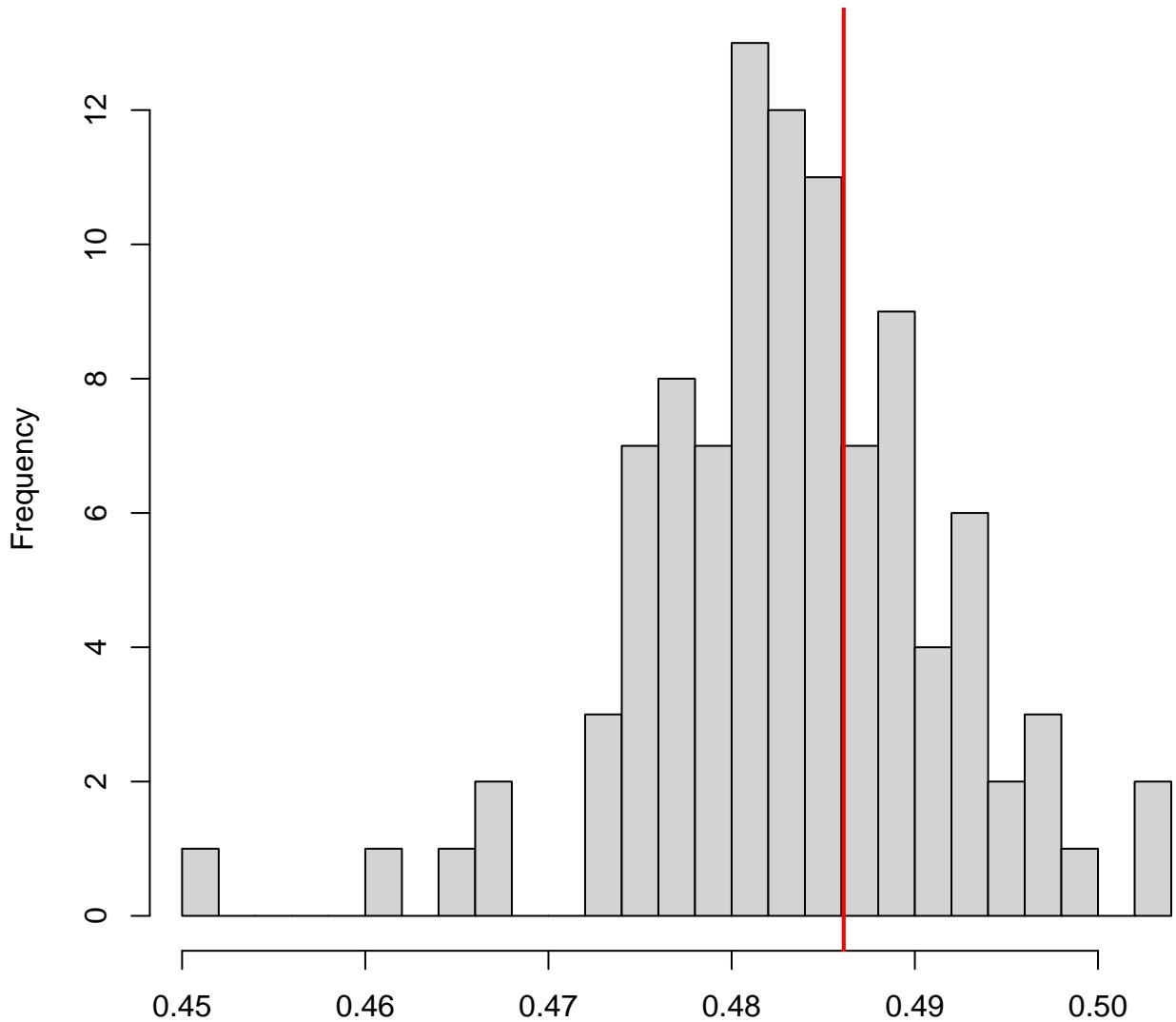


Simulated values, red line = fitted model. p-value (two.sided) = 0.98



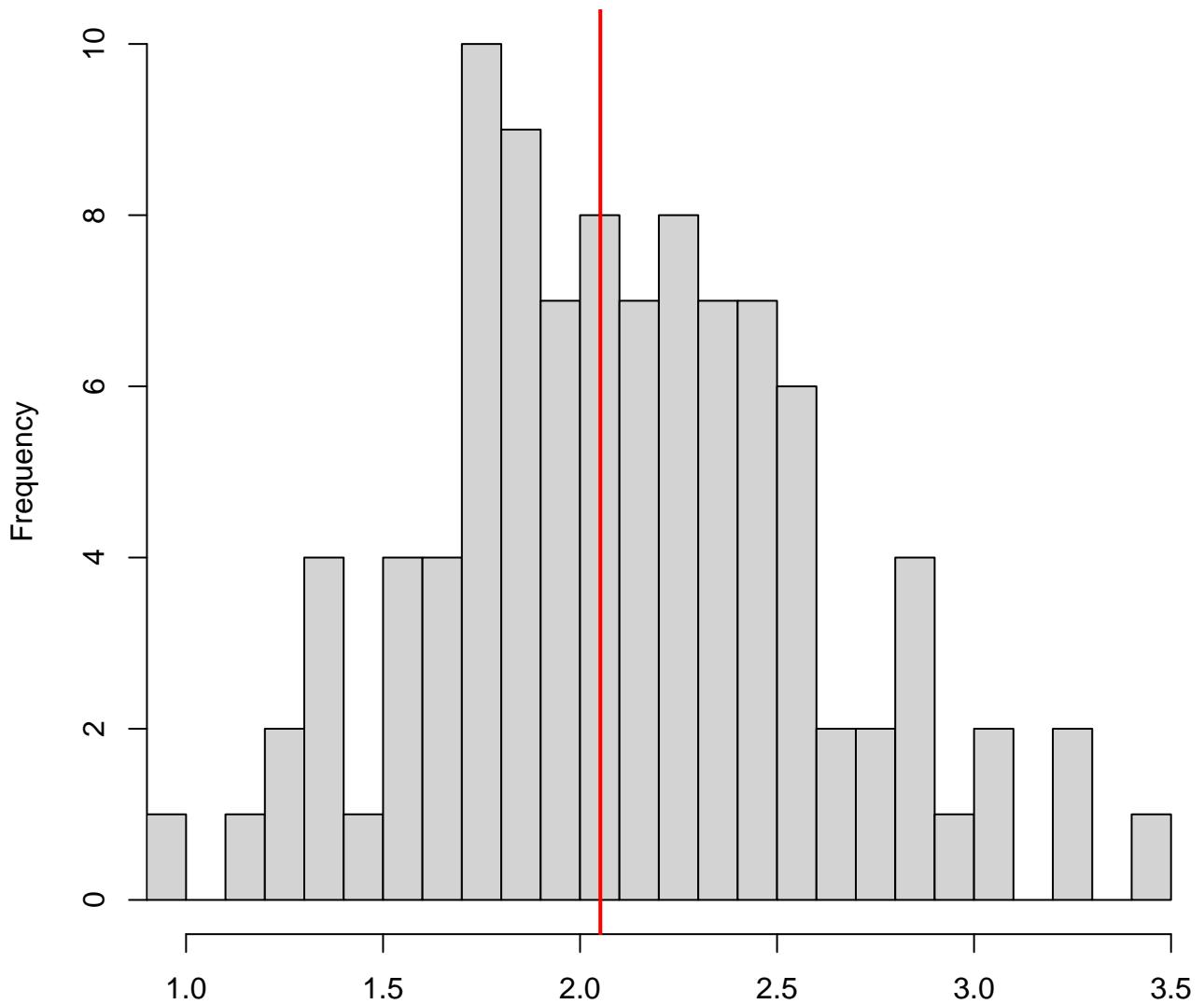


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.68

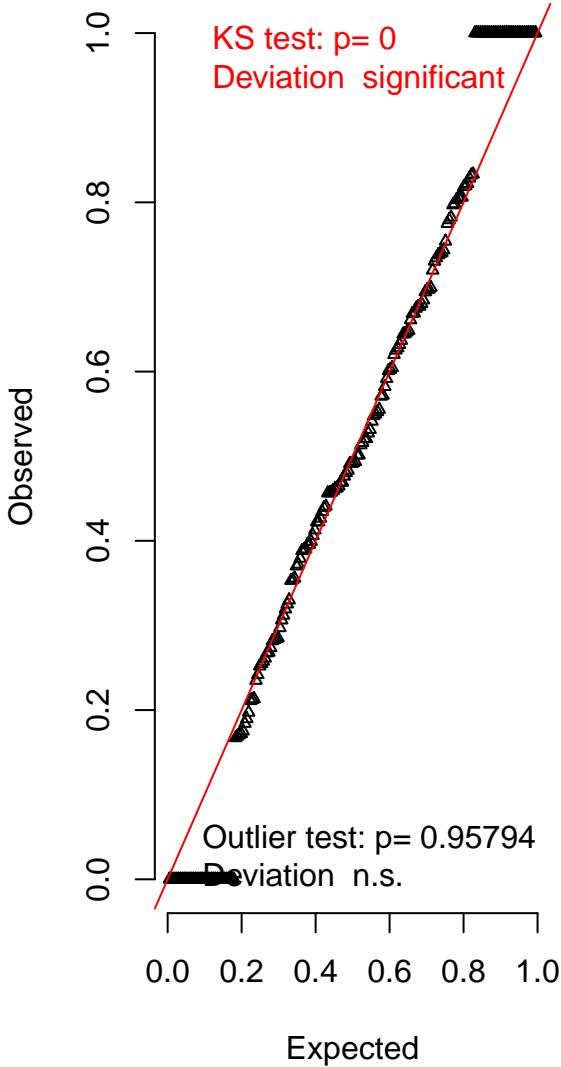
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



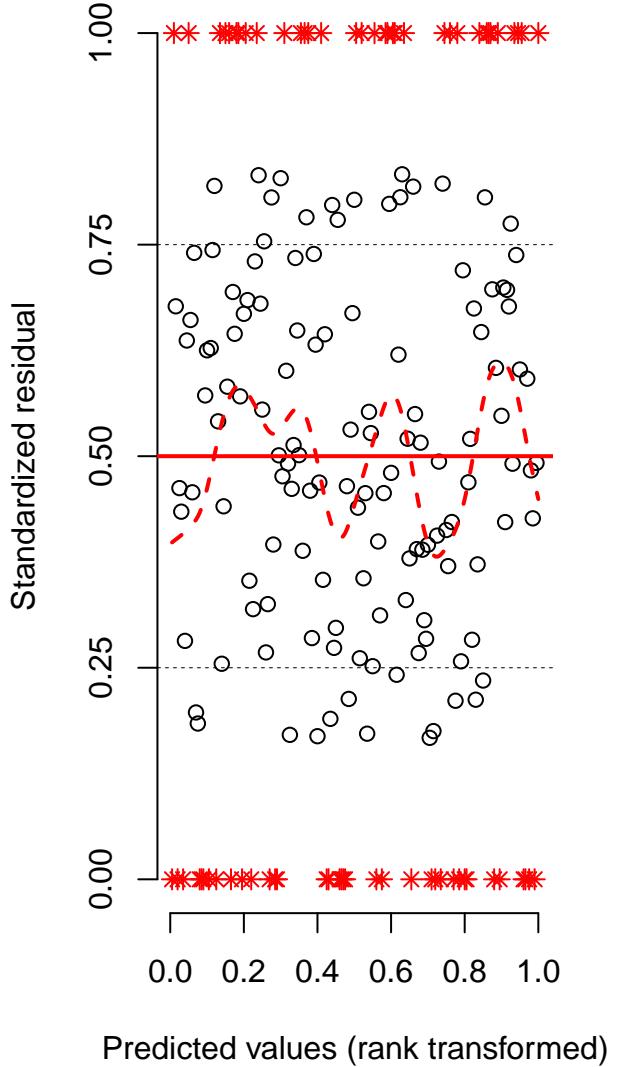
Simulated values, red line = fitted model. p-value (two.sided) = 0.94

DHARMA scaled residual plots

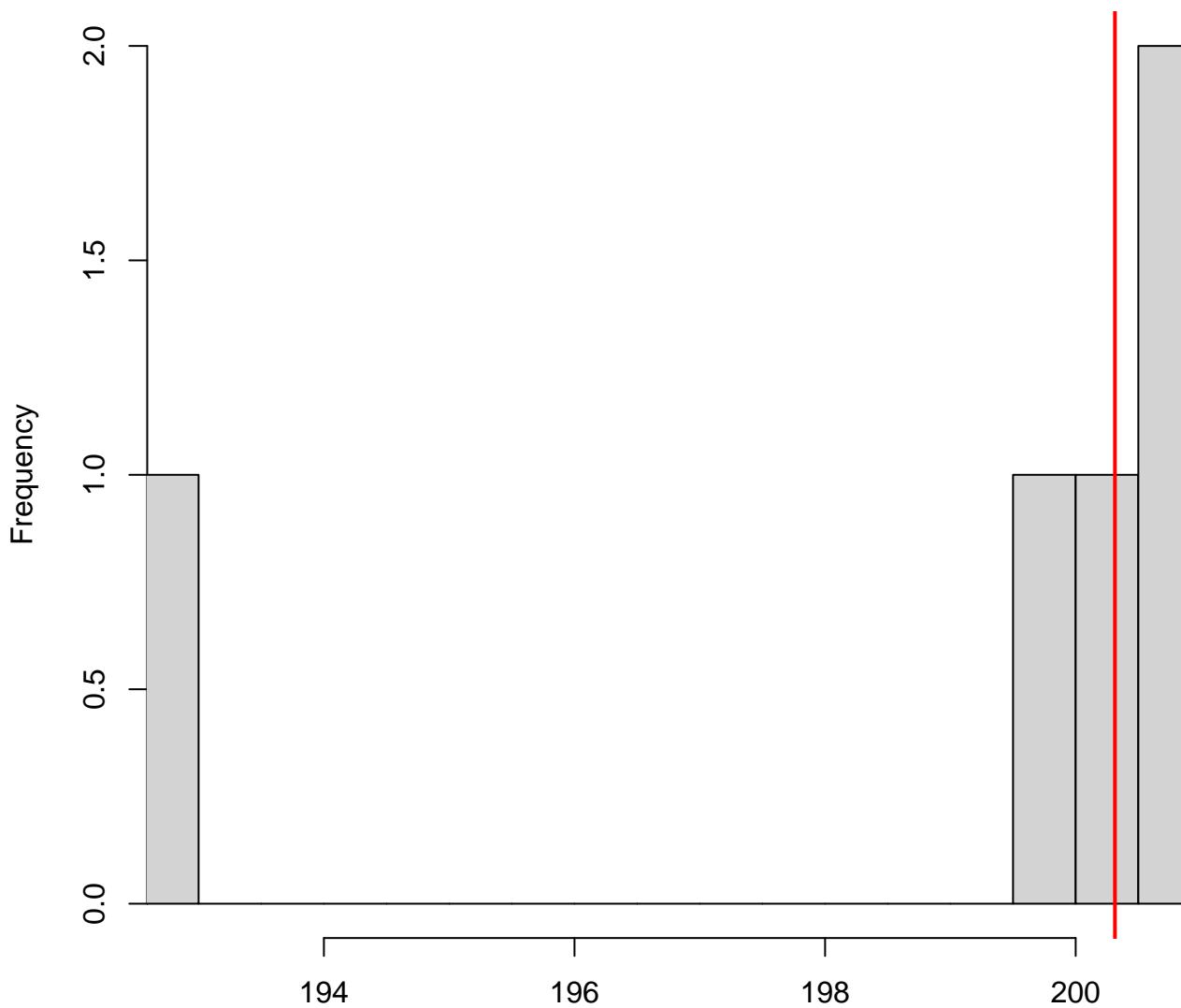
QQ plot residuals



Residual vs. predicted lines should match

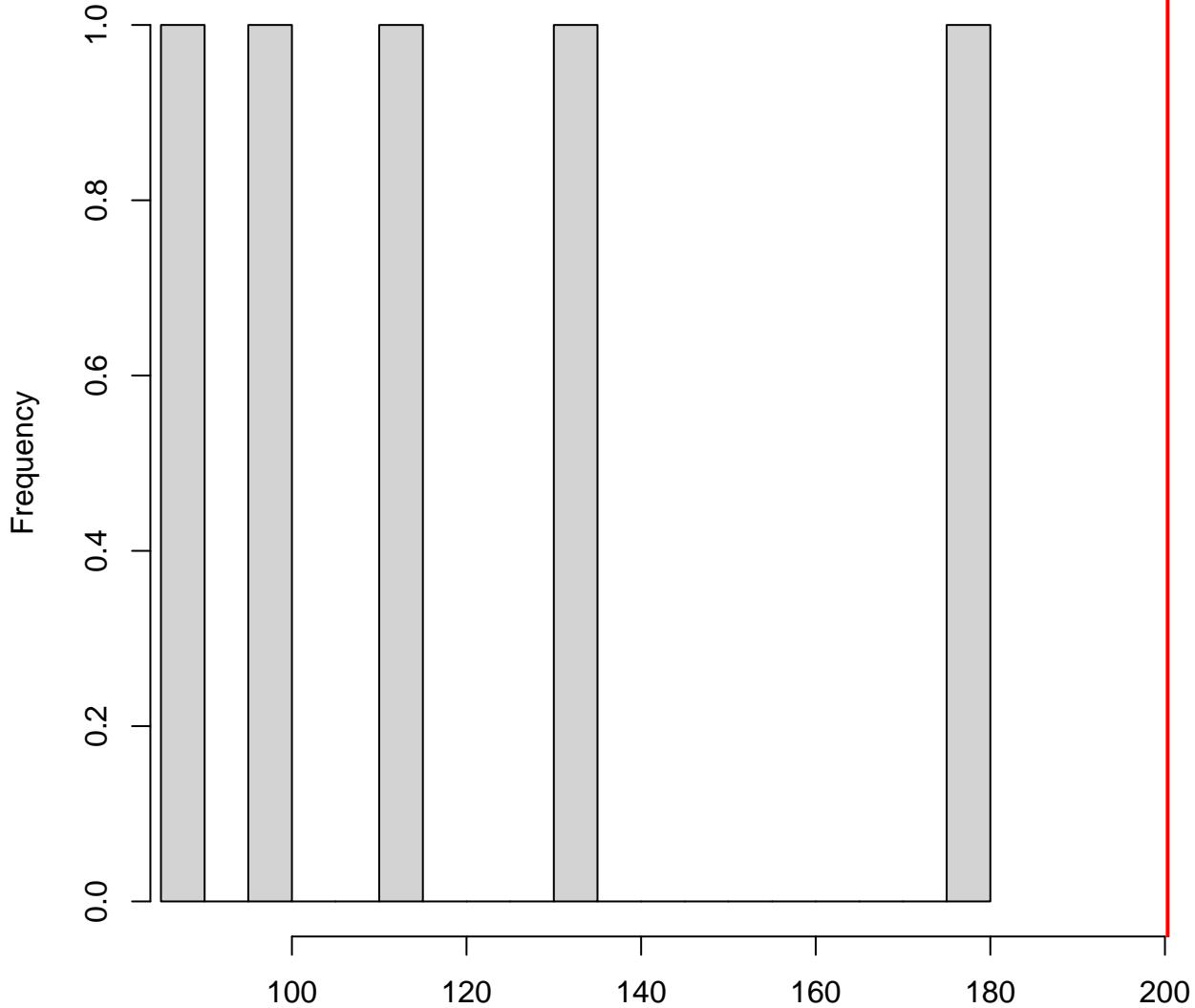


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



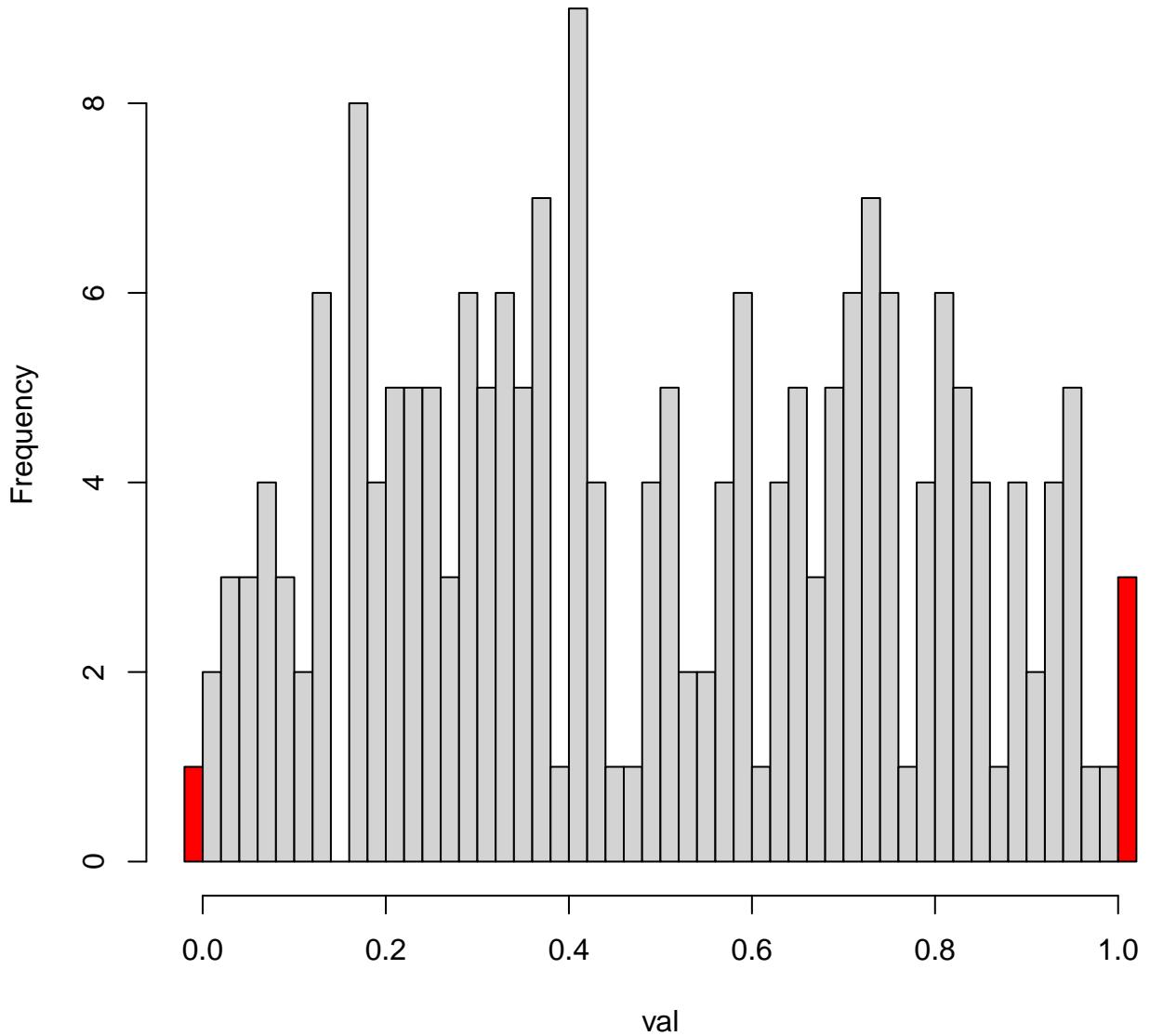
Simulated values, red line = fitted model. p-value (two.sided) = 0.8

DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted

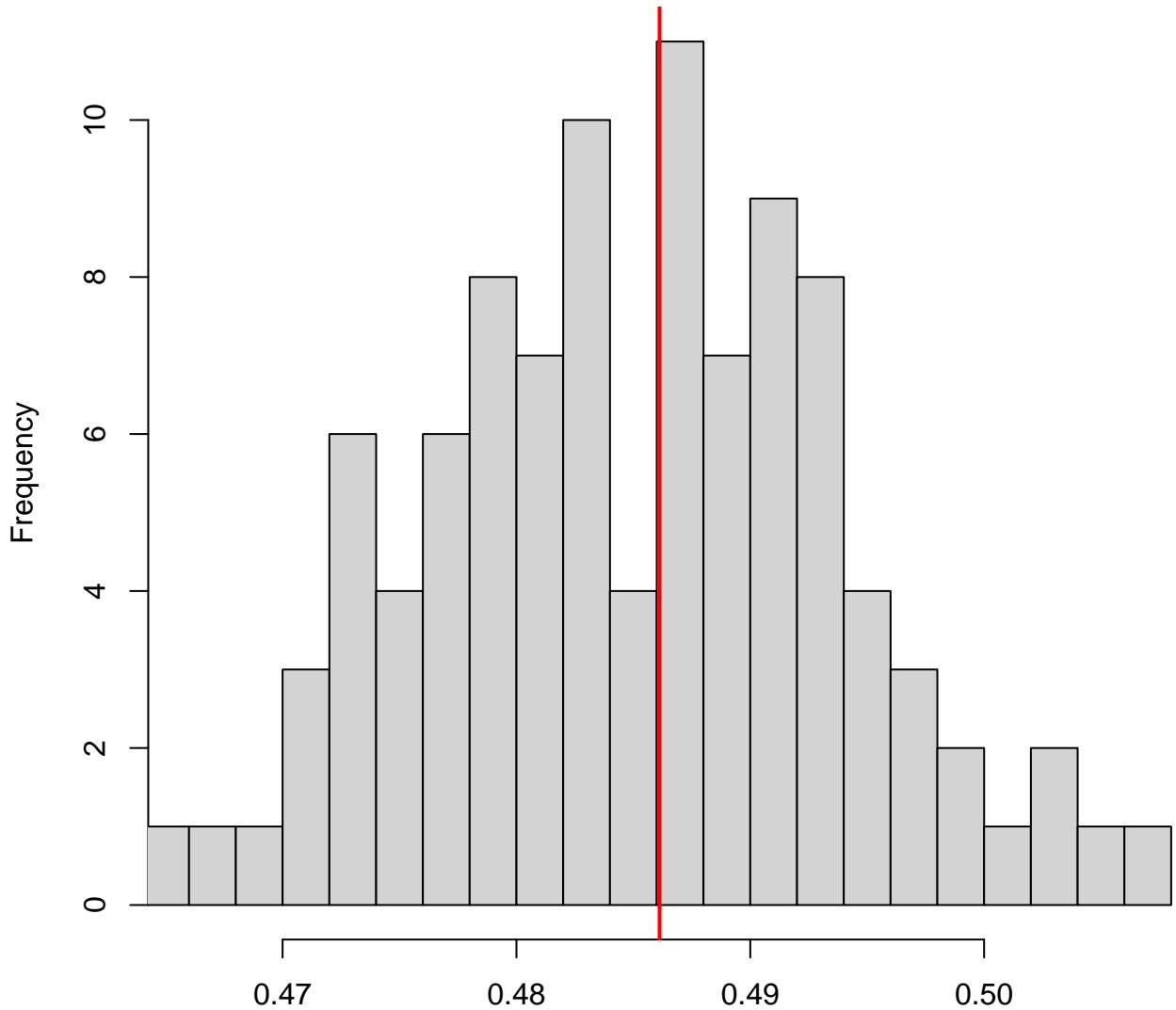


Simulated values, red line = fitted model. p-value (two.sided) = 0

Hist of DHARMa residuals
Outliers are marked red

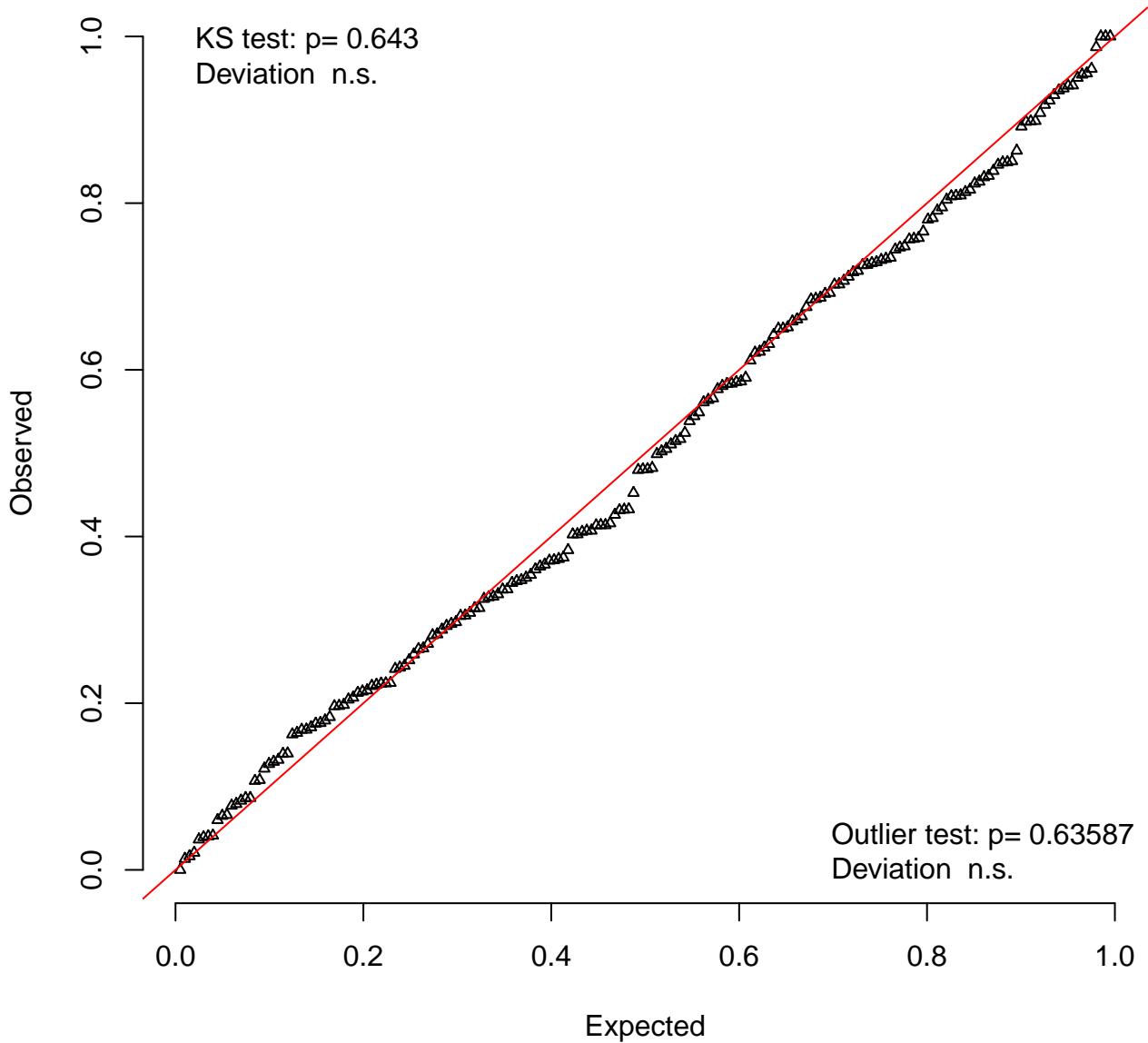


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

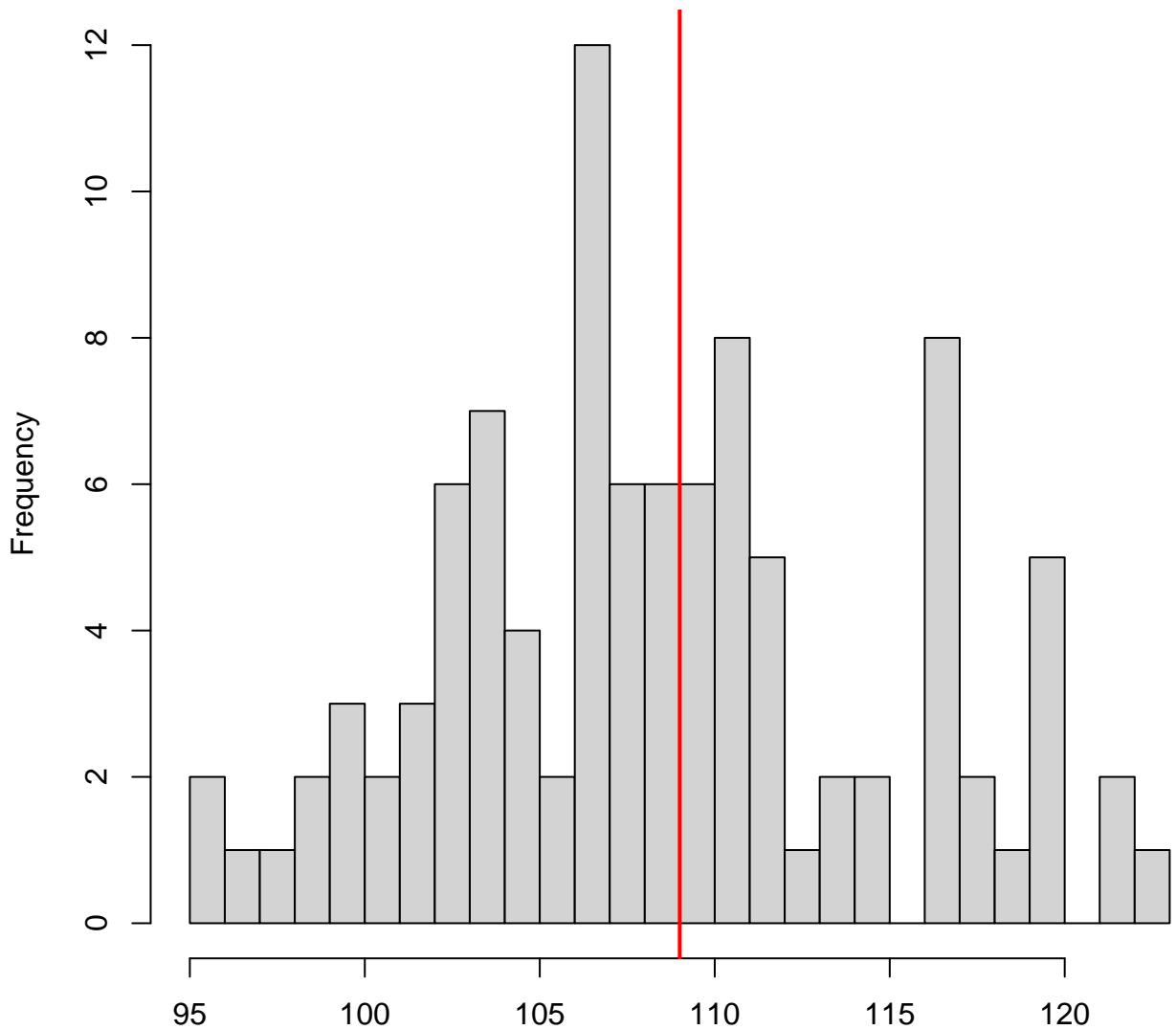


Simulated values, red line = fitted model. p-value (two.sided) = 0.96

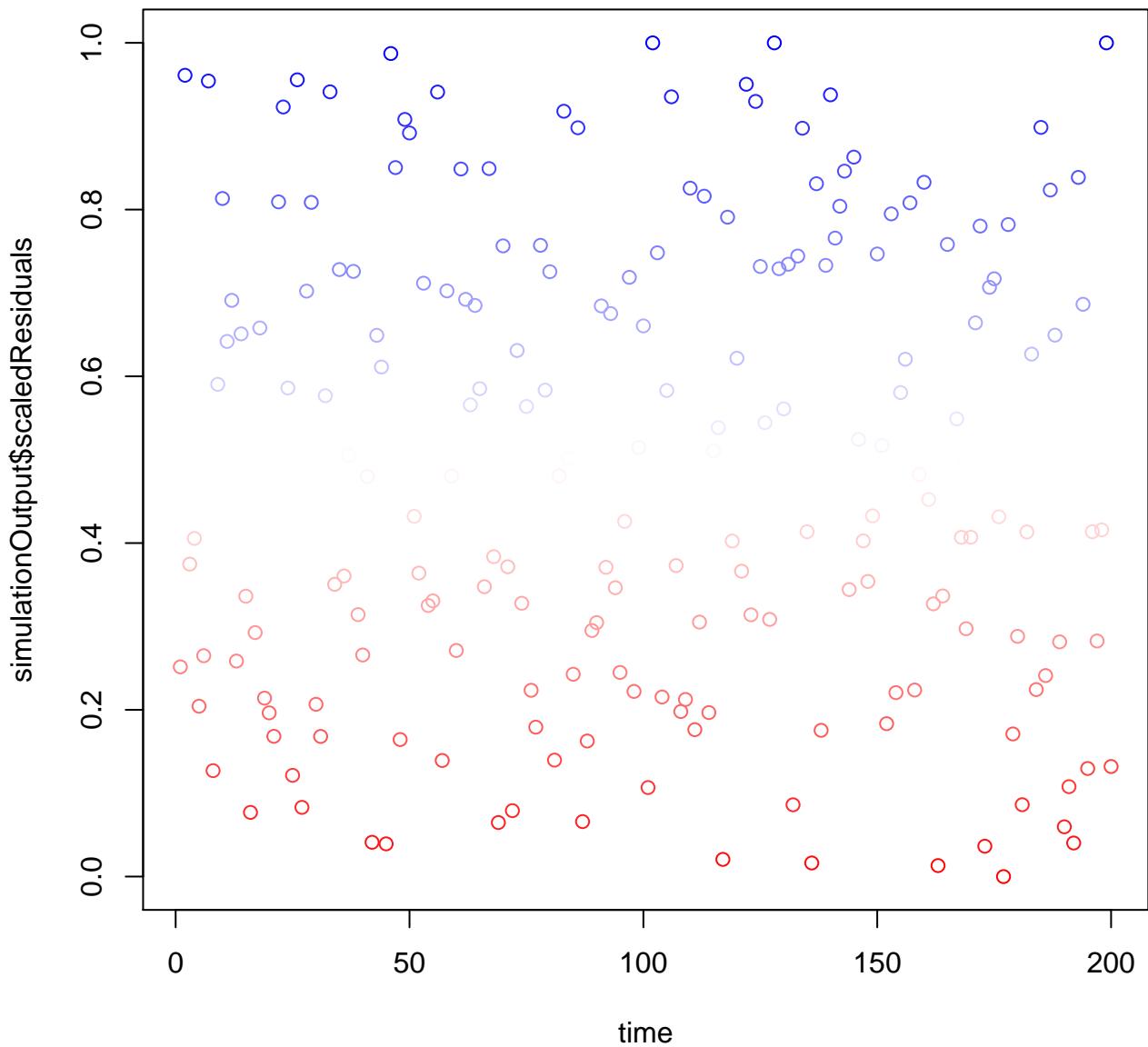
QQ plot residuals

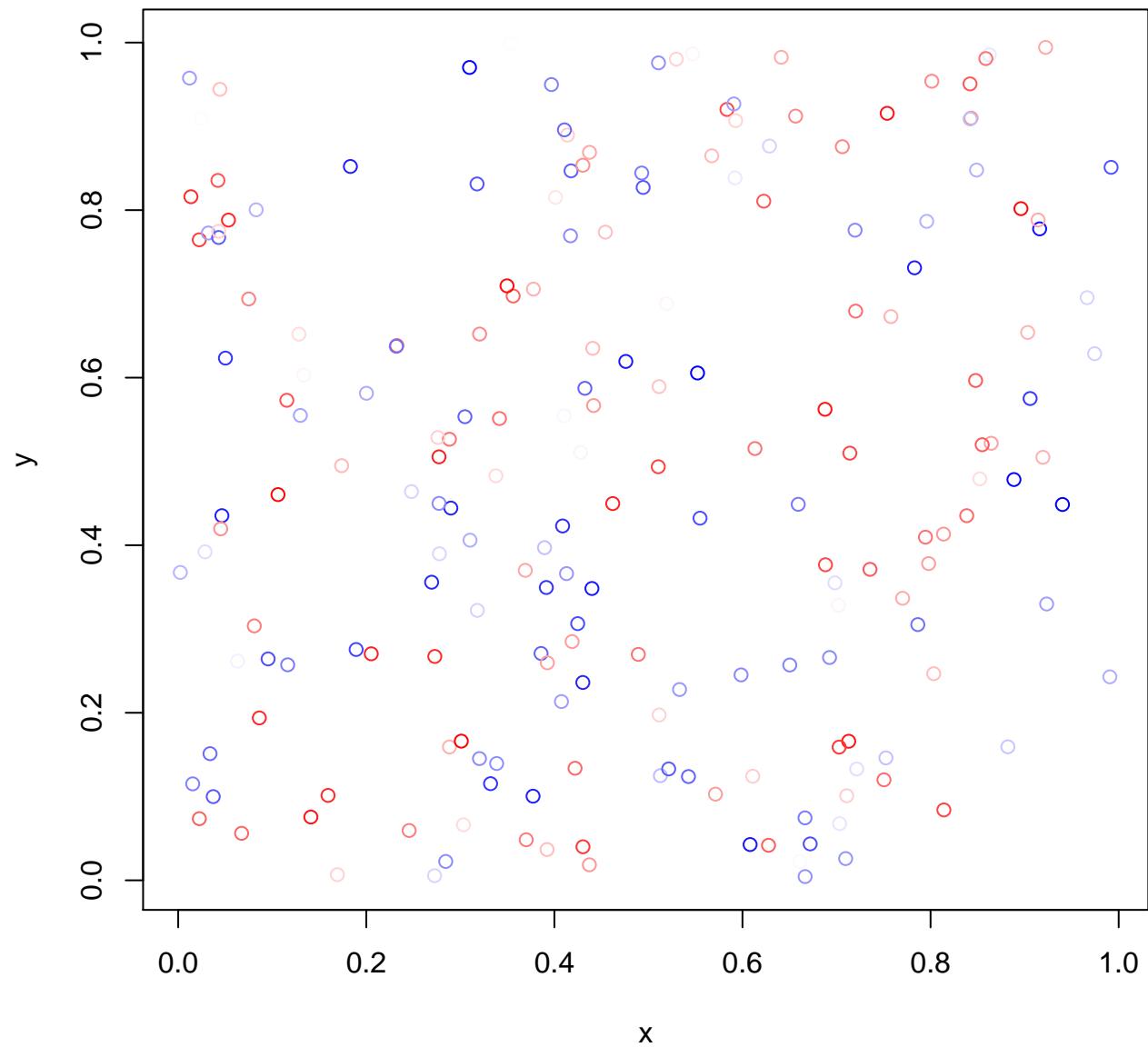


DHARMA zero-inflation test via comparison to expected zeros with simulation under H0 = fitted model

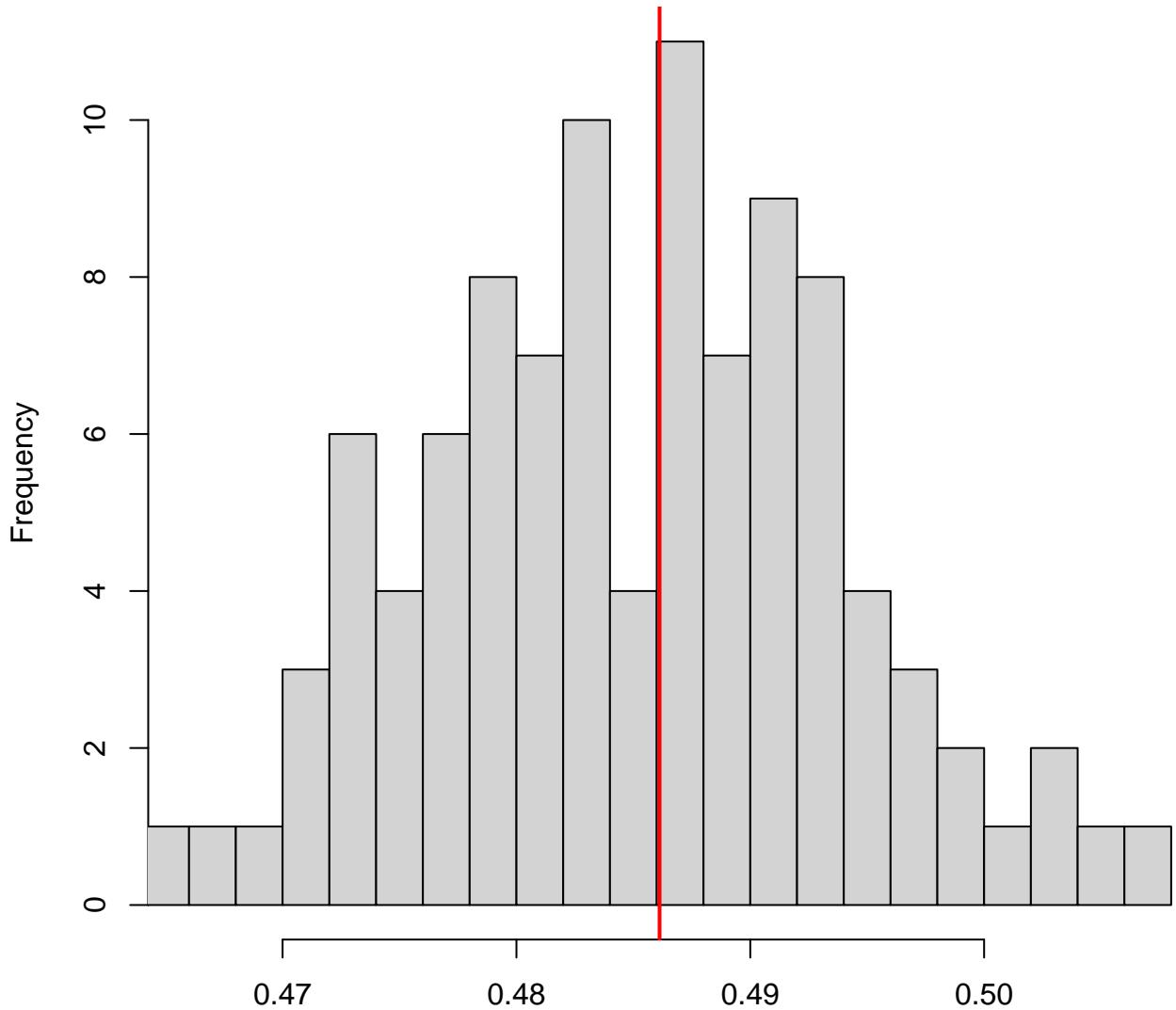


Simulated values, red line = fitted model. p-value (two.sided) = 0.98



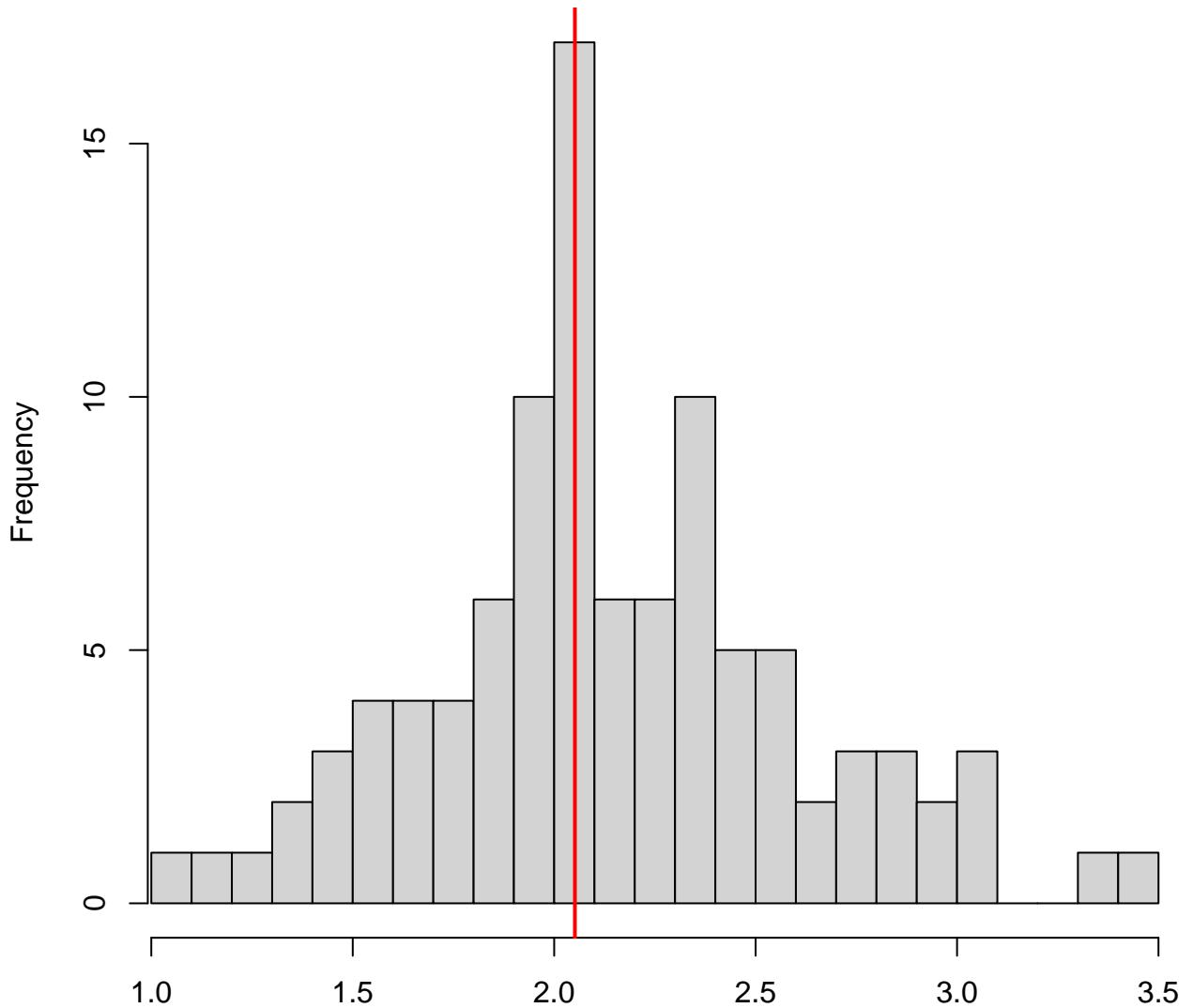


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.96

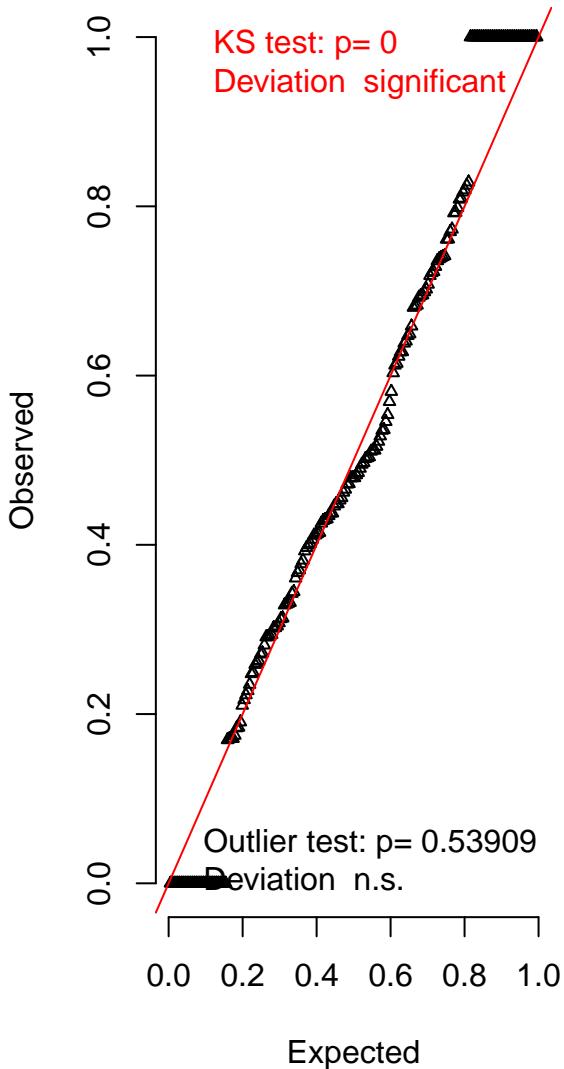
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



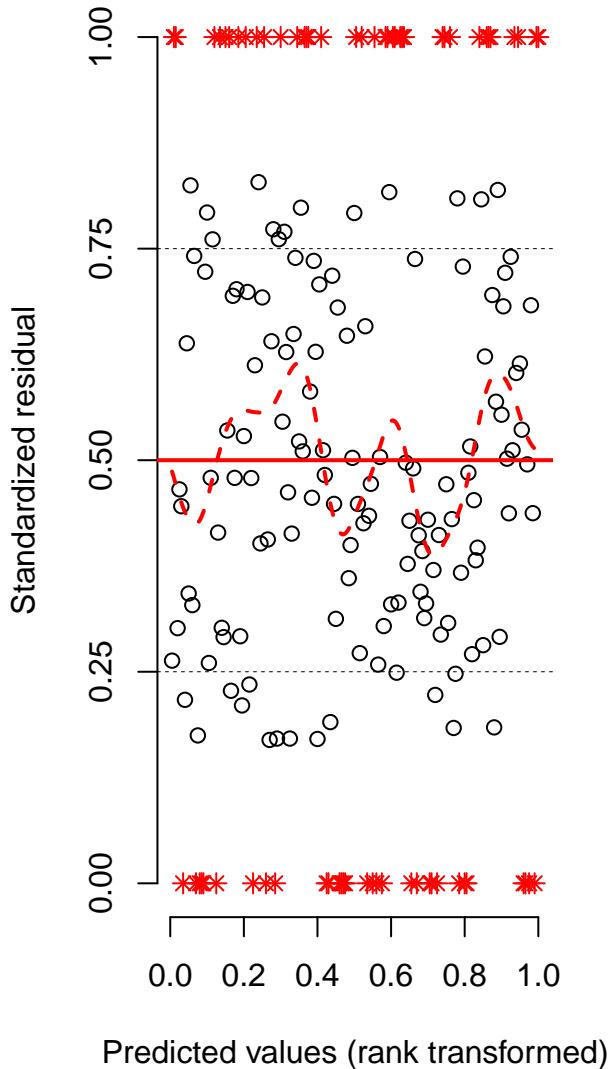
Simulated values, red line = fitted model. p-value (two.sided) = 0.96

DHARMA scaled residual plots

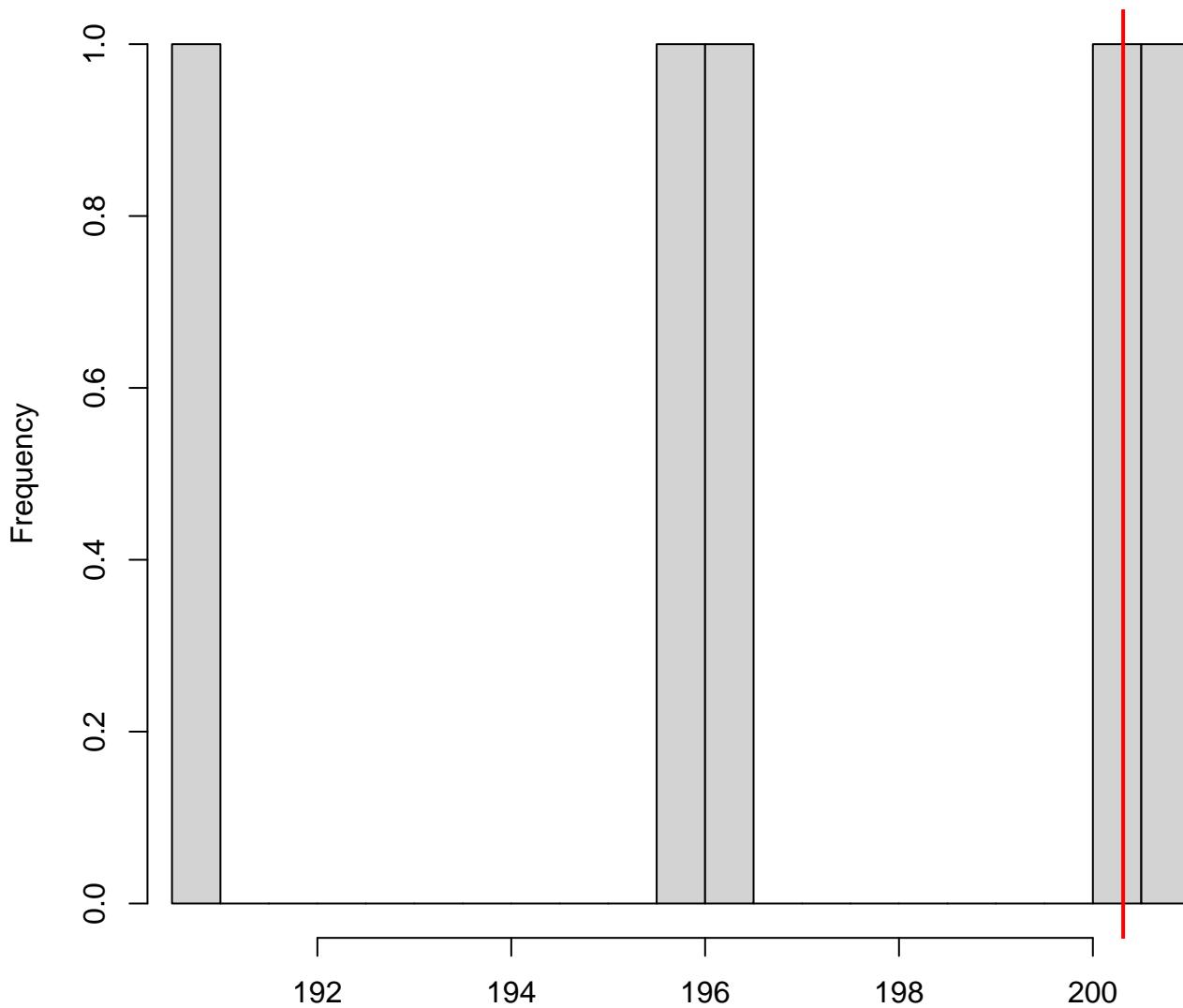
QQ plot residuals



Residual vs. predicted lines should match

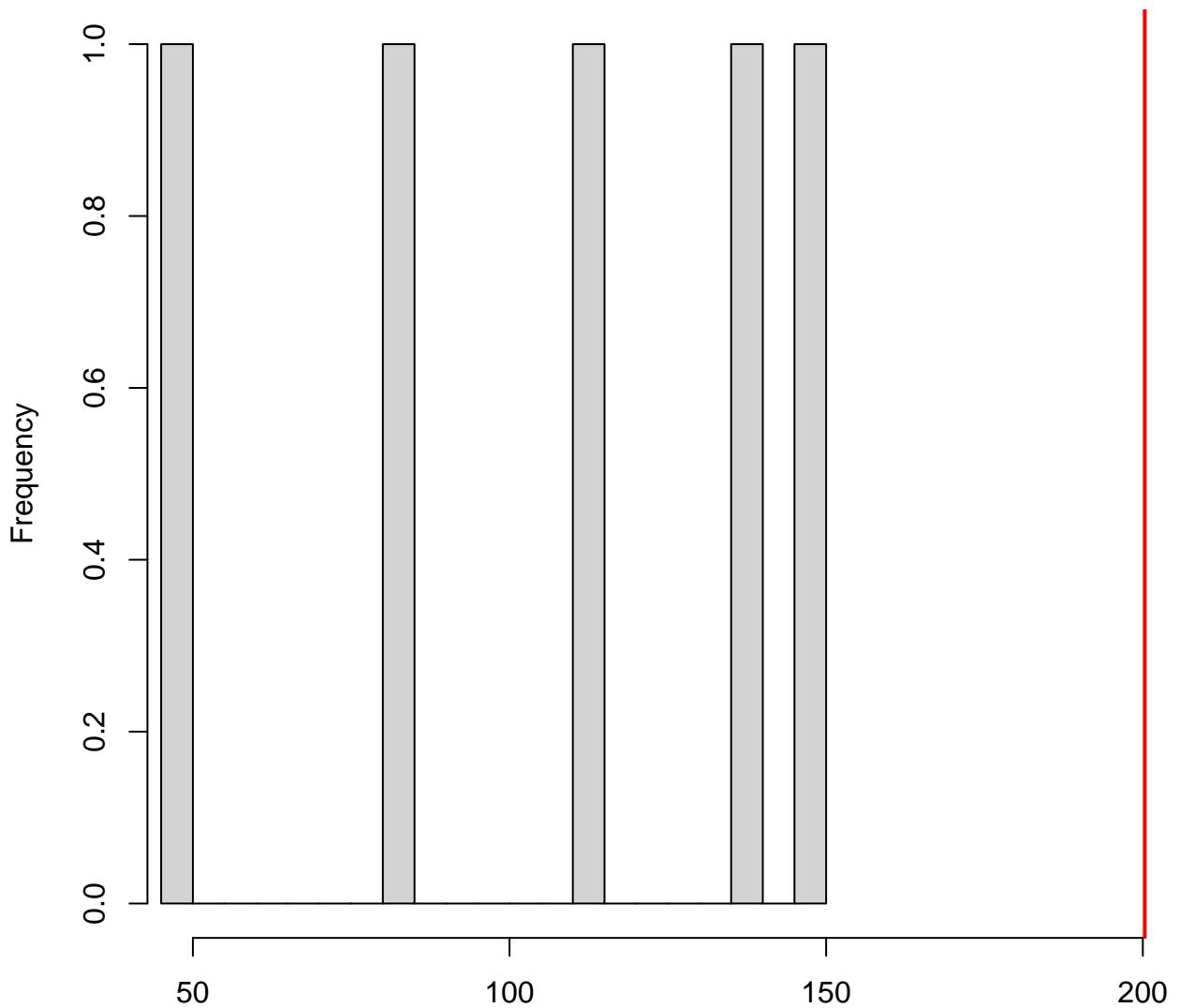


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



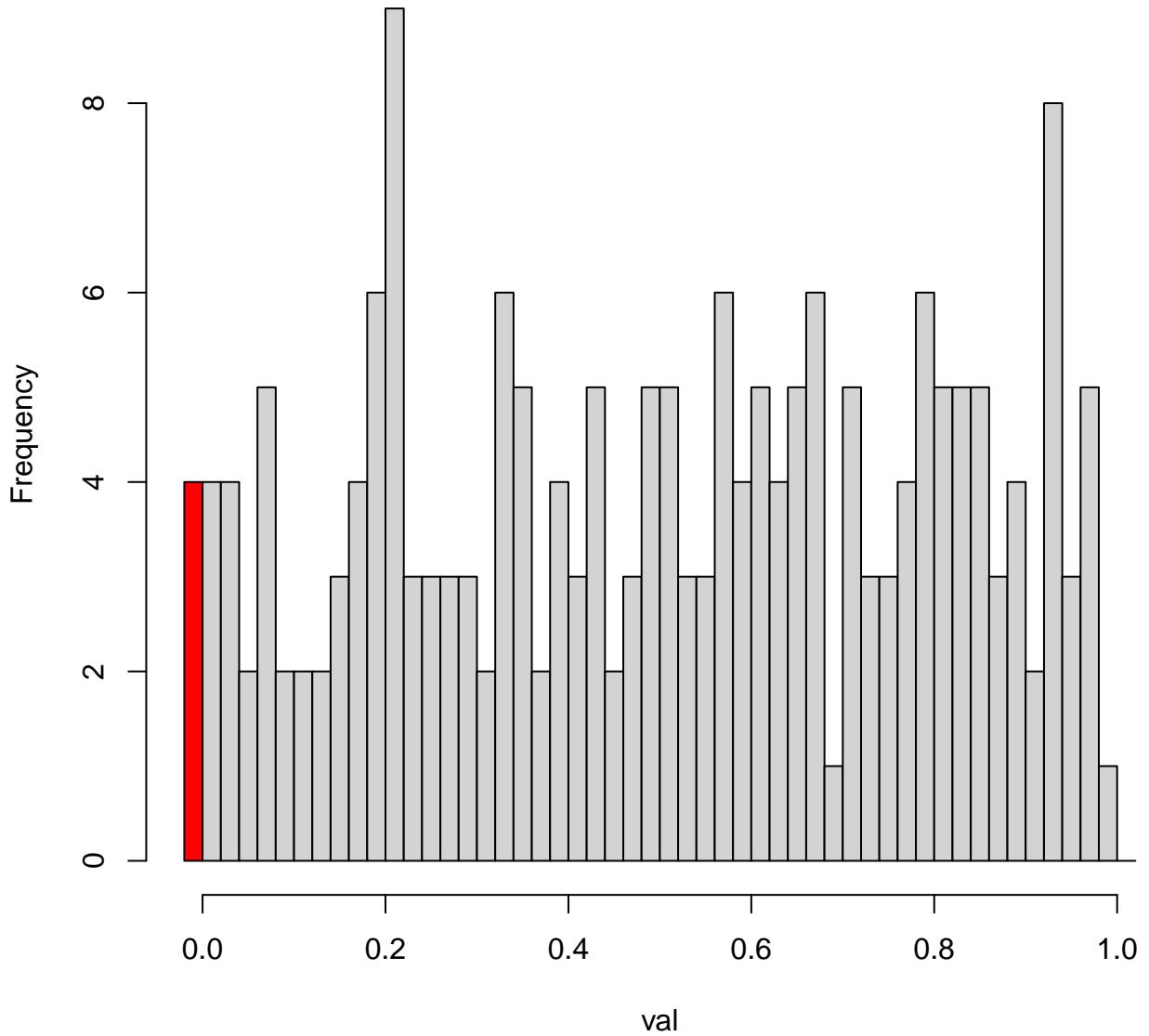
Simulated values, red line = fitted model. p-value (two.sided) = 0.4

DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted

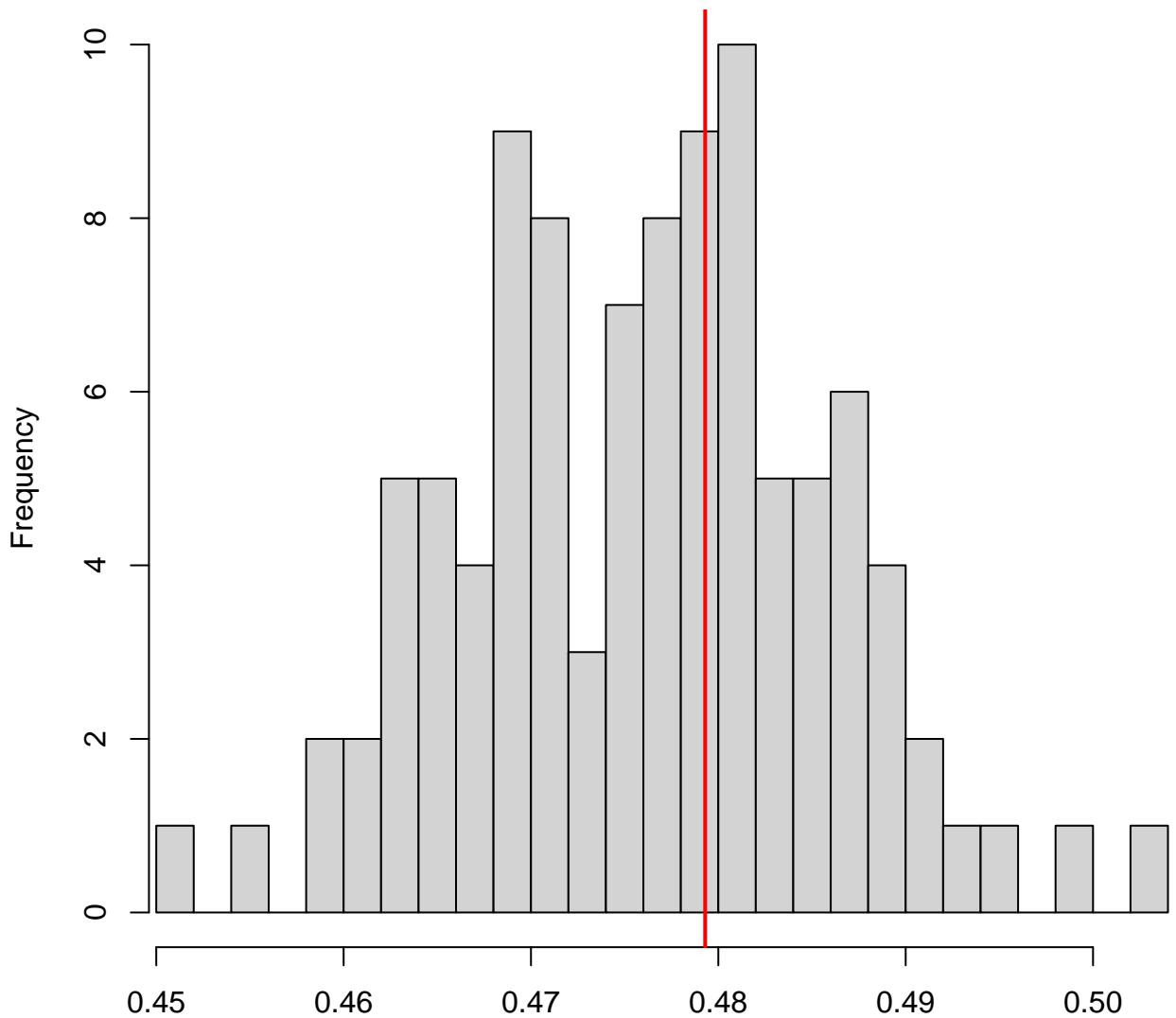


Simulated values, red line = fitted model. p-value (two.sided) = 0

Hist of DHARMA residuals
Outliers are marked red

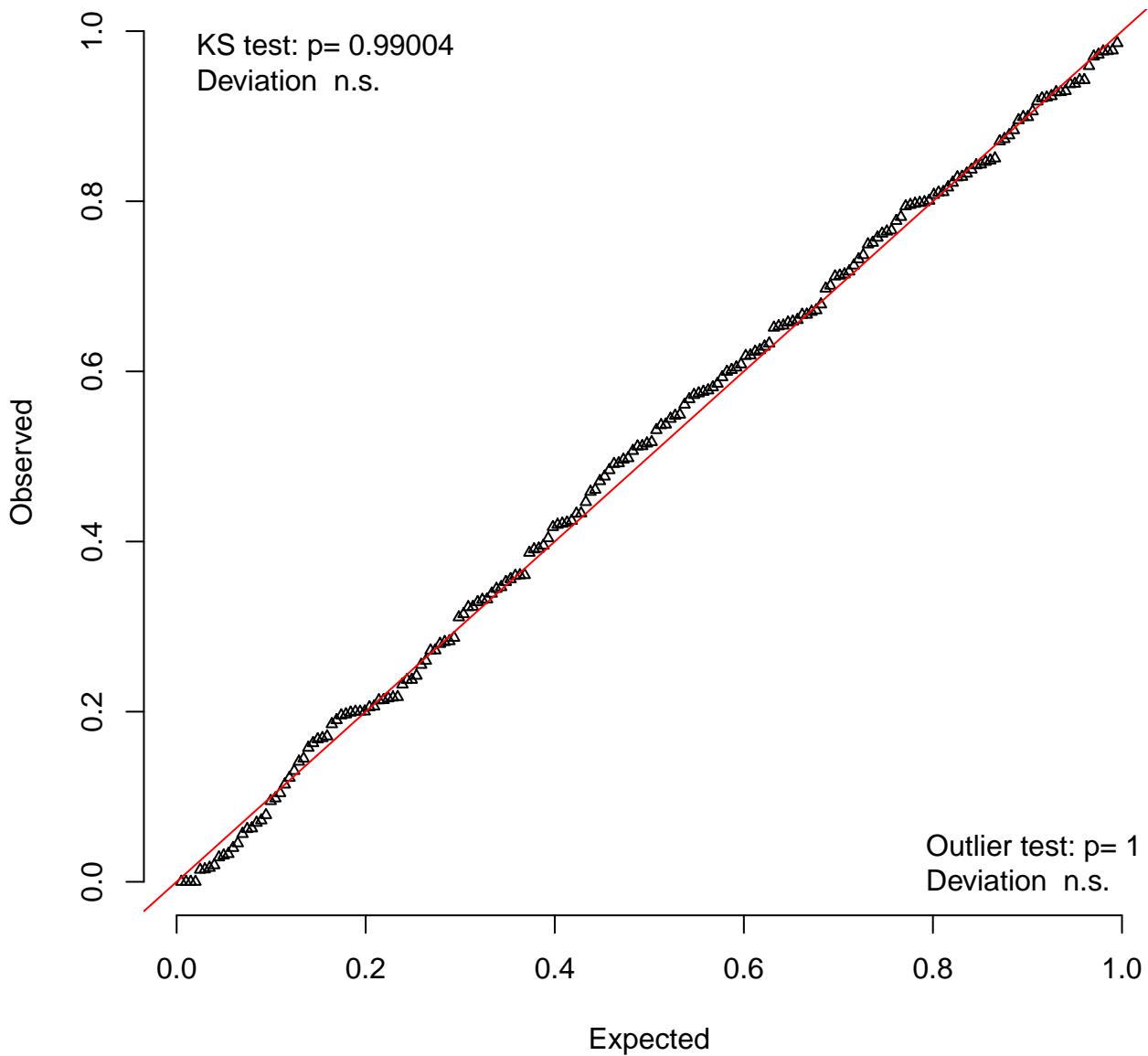


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

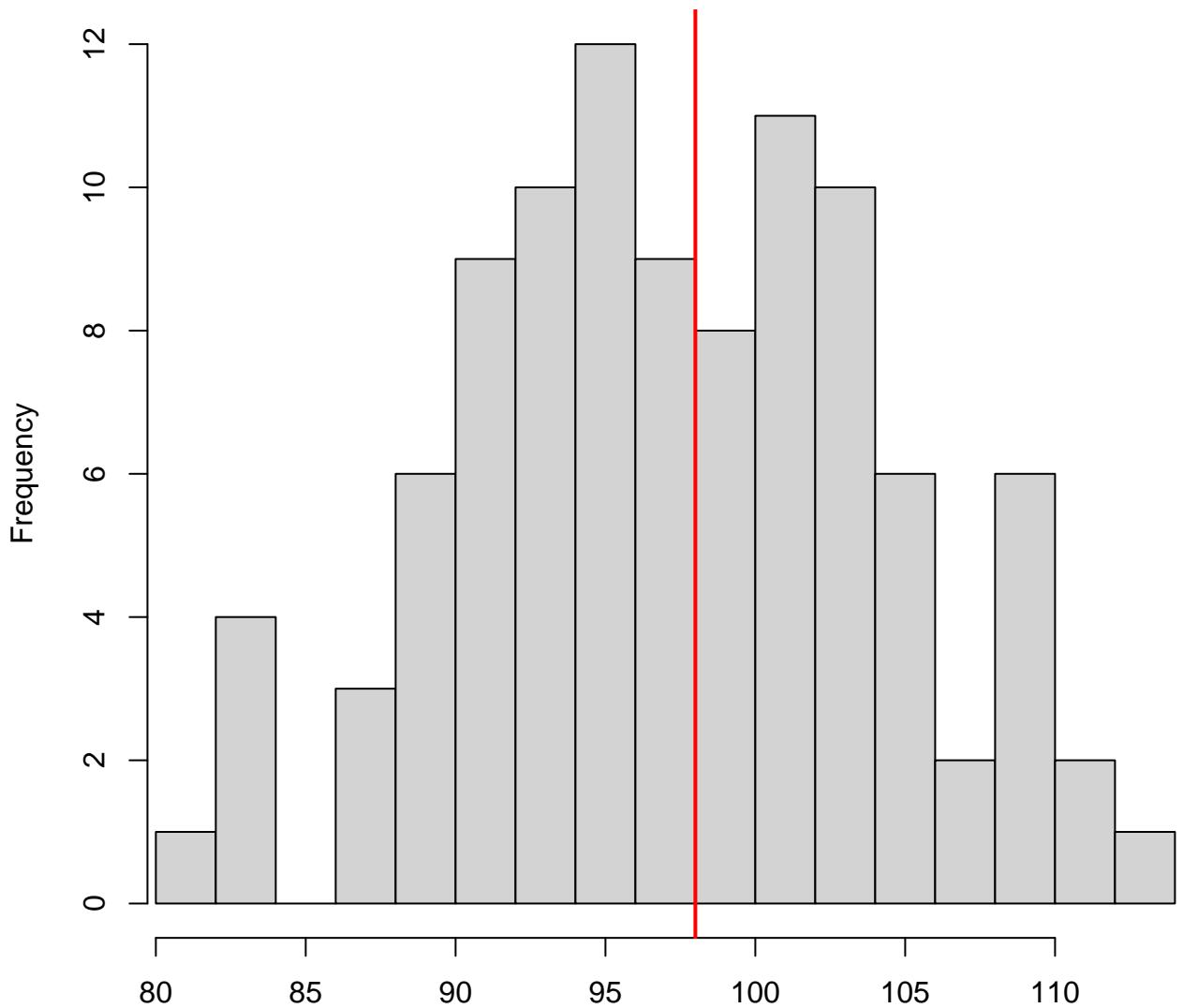


Simulated values, red line = fitted model. p-value (two.sided) = 0.8

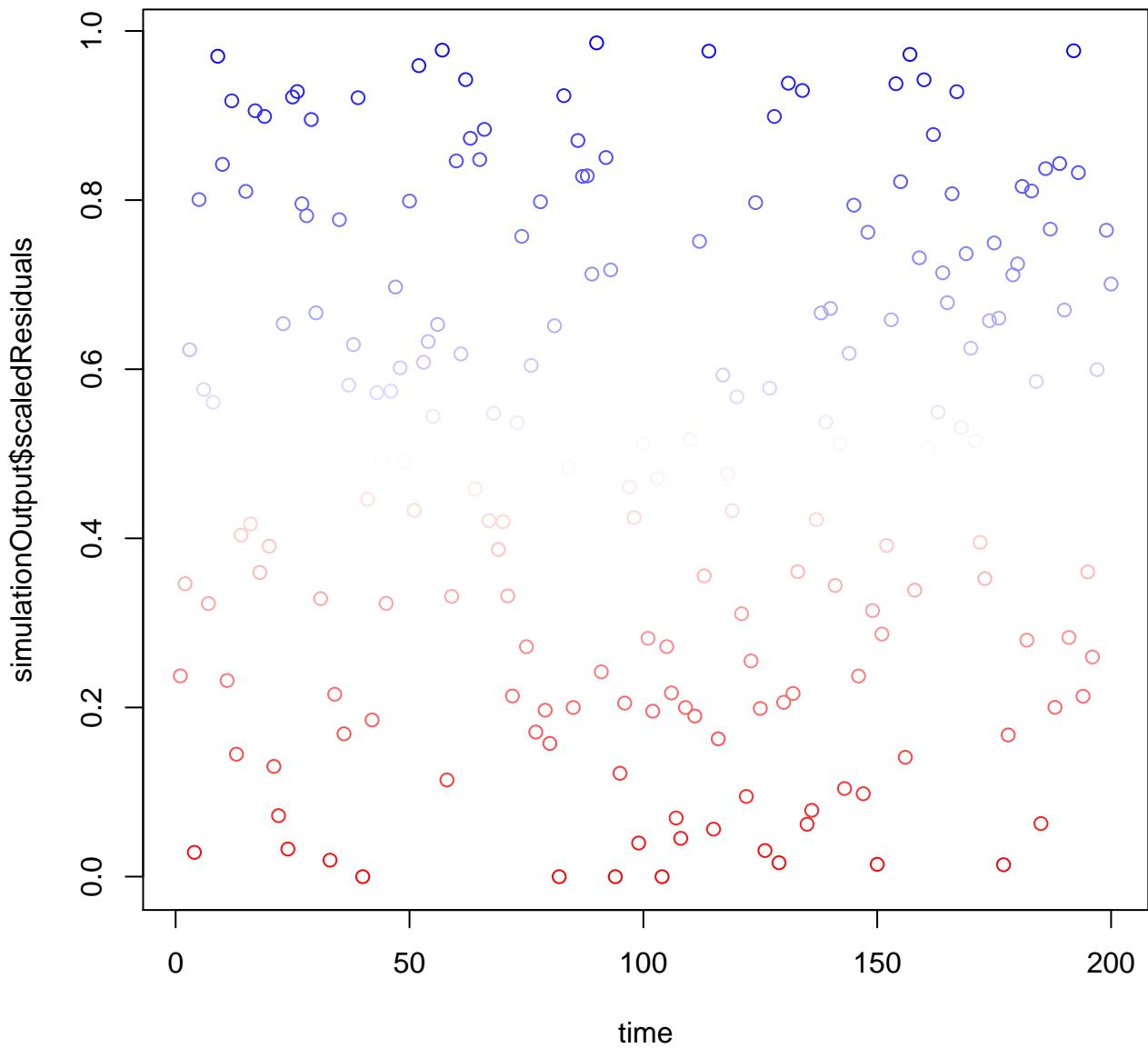
QQ plot residuals

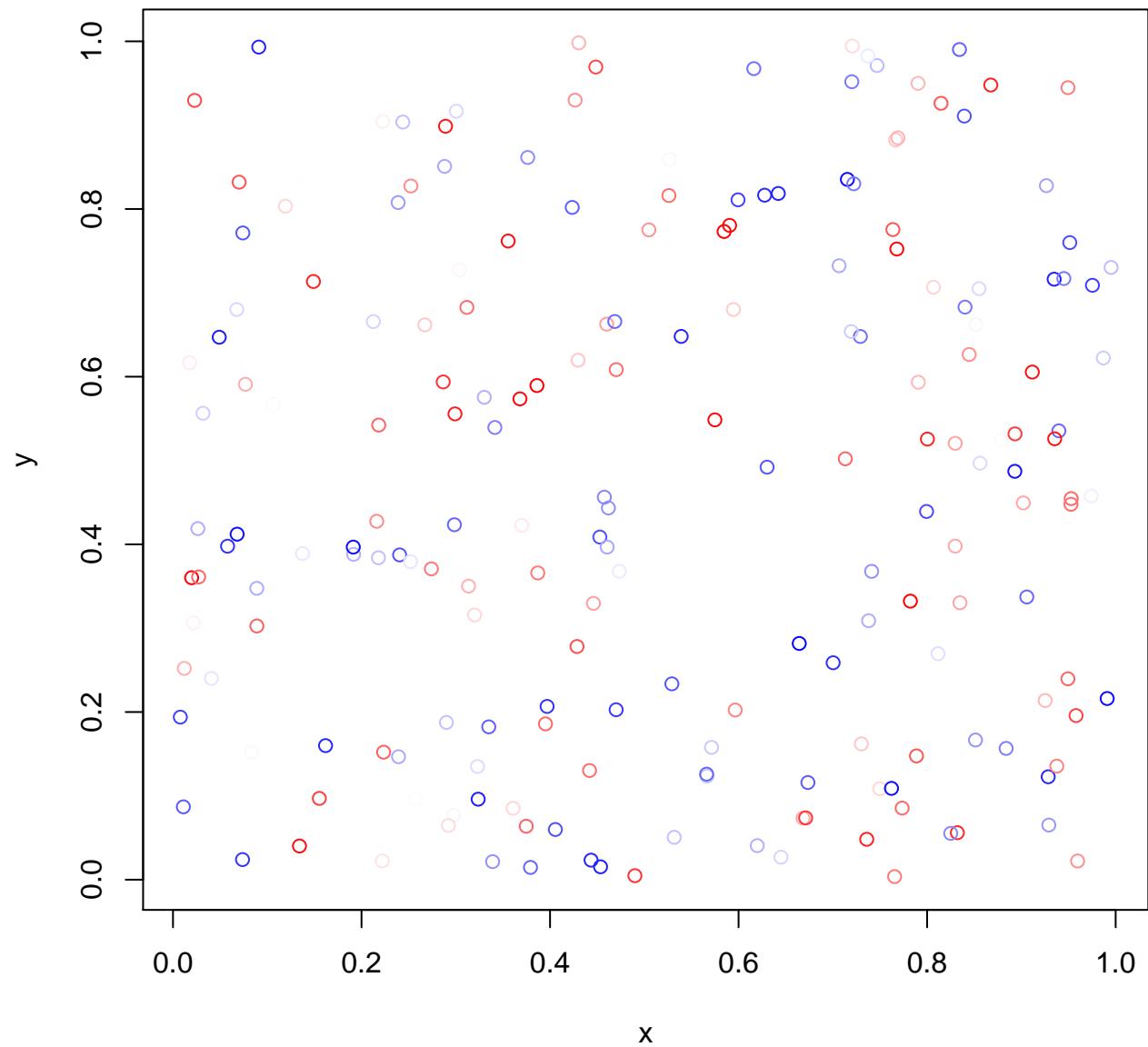


DHARMA zero-inflation test via comparison to expected zeros with simulation under H0 = fitted model

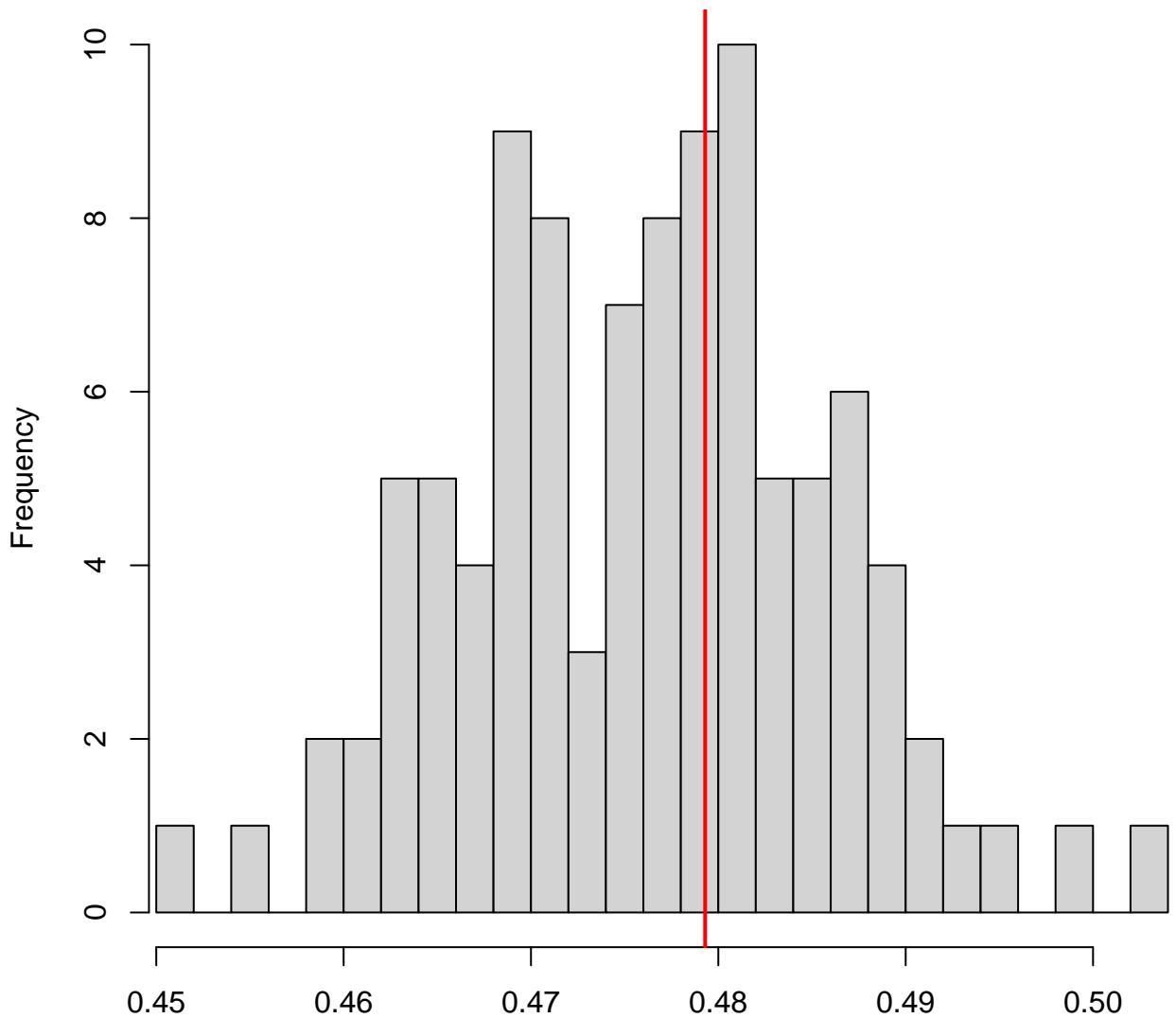


Simulated values, red line = fitted model. p-value (two.sided) = 1



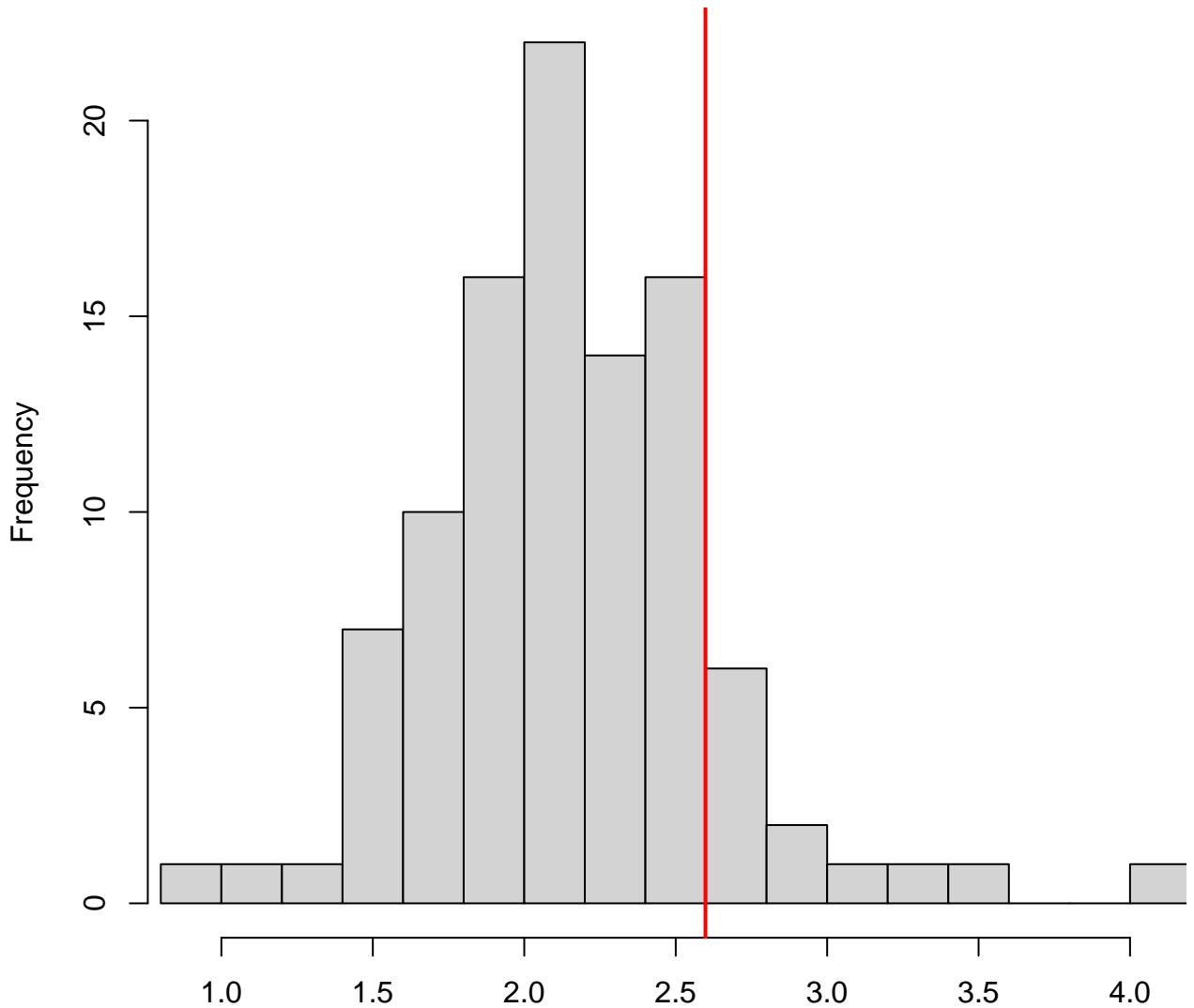


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.8

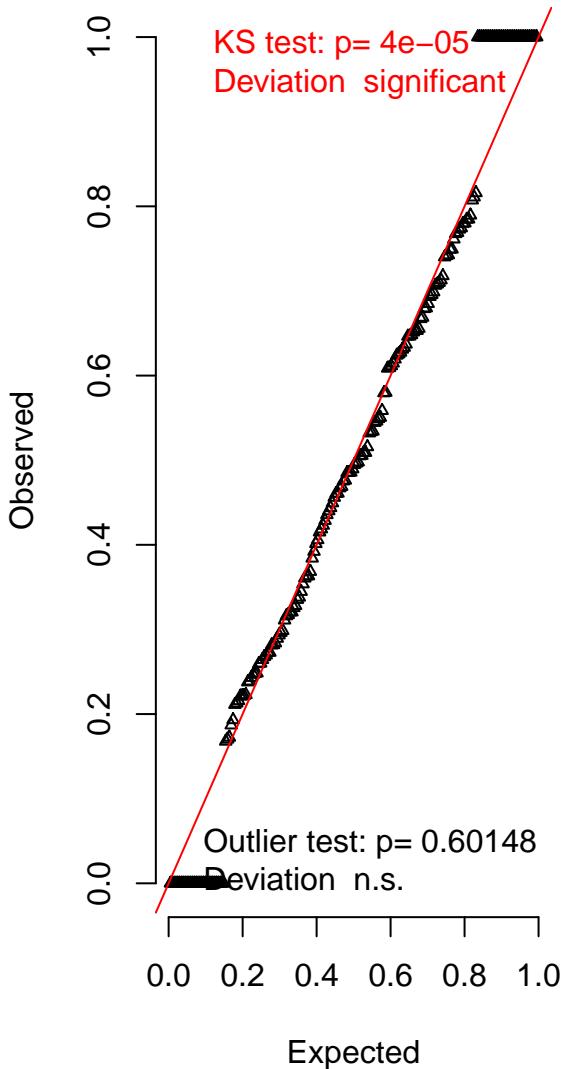
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



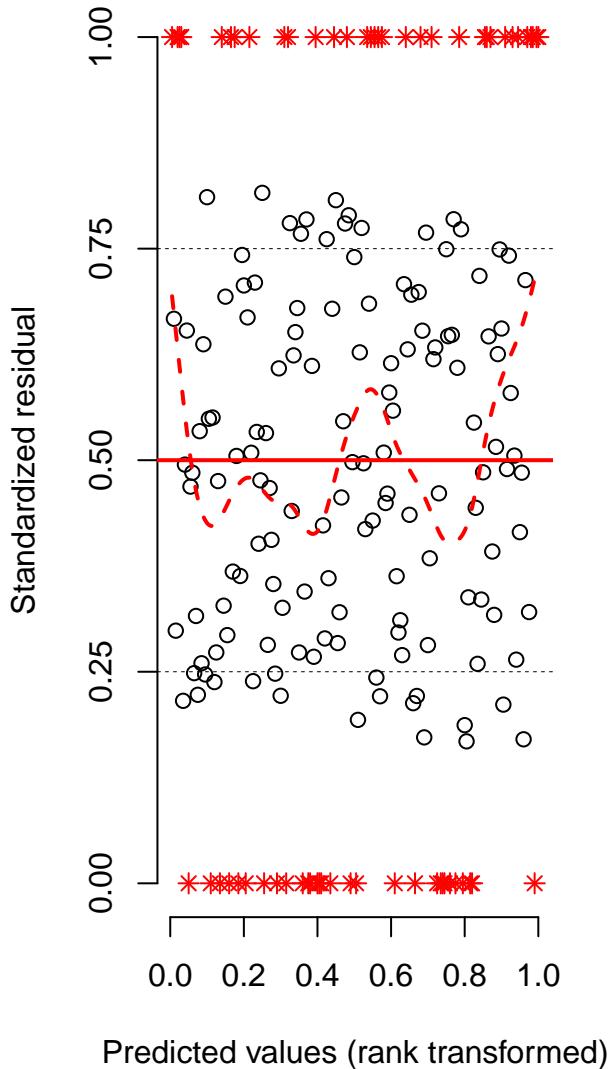
Simulated values, red line = fitted model. p-value (two.sided) = 0.24

DHARMA scaled residual plots

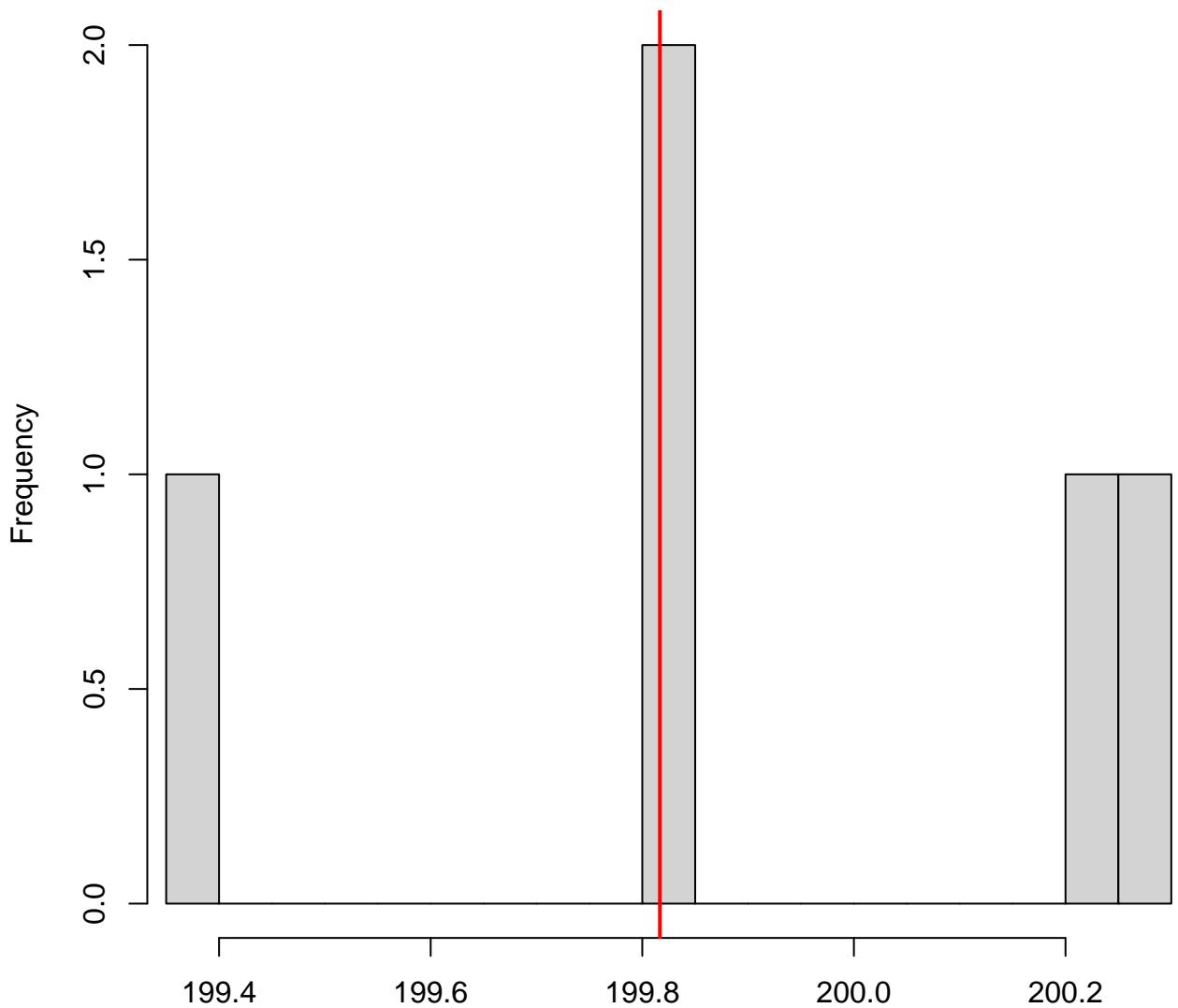
QQ plot residuals



Residual vs. predicted lines should match

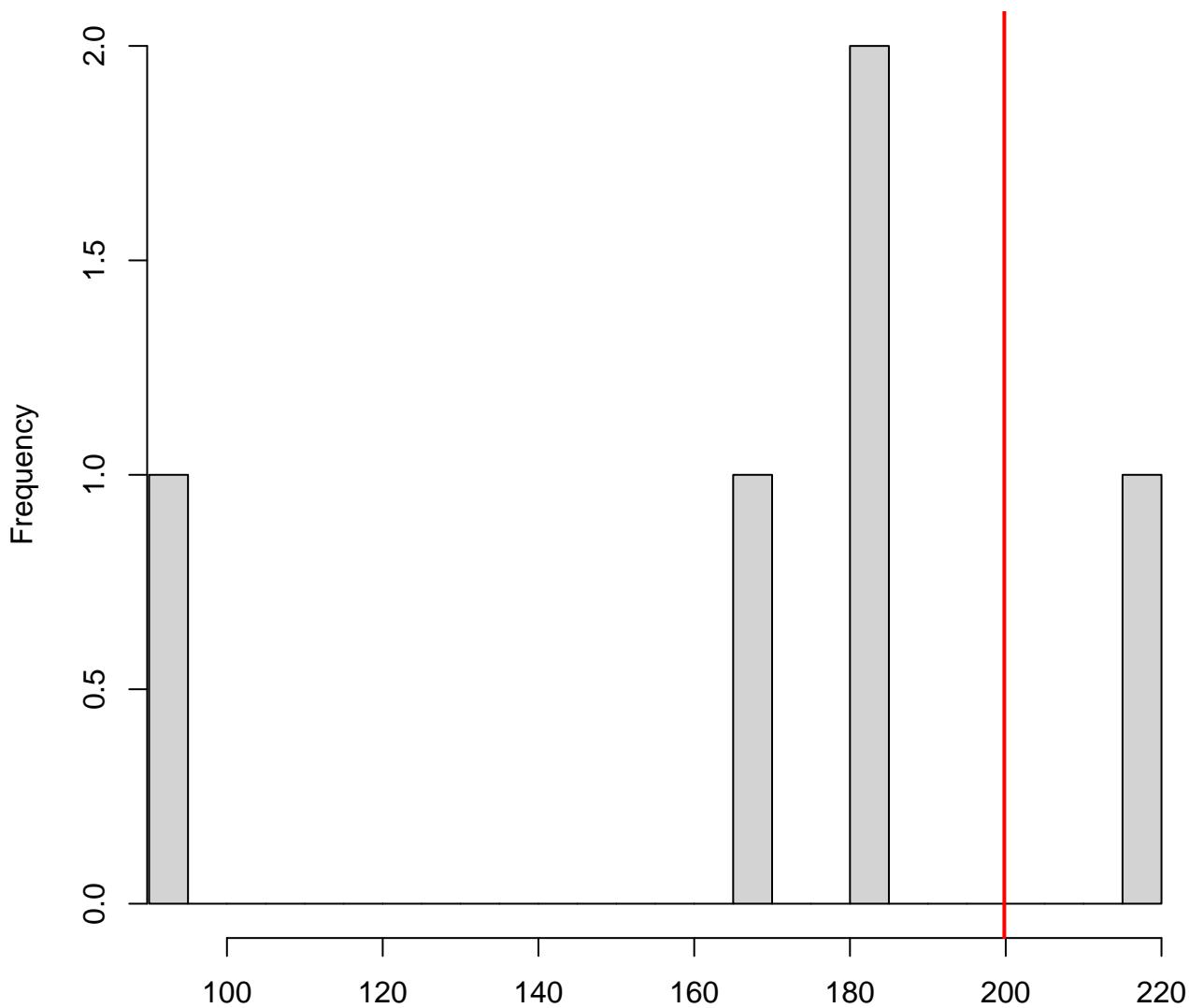


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



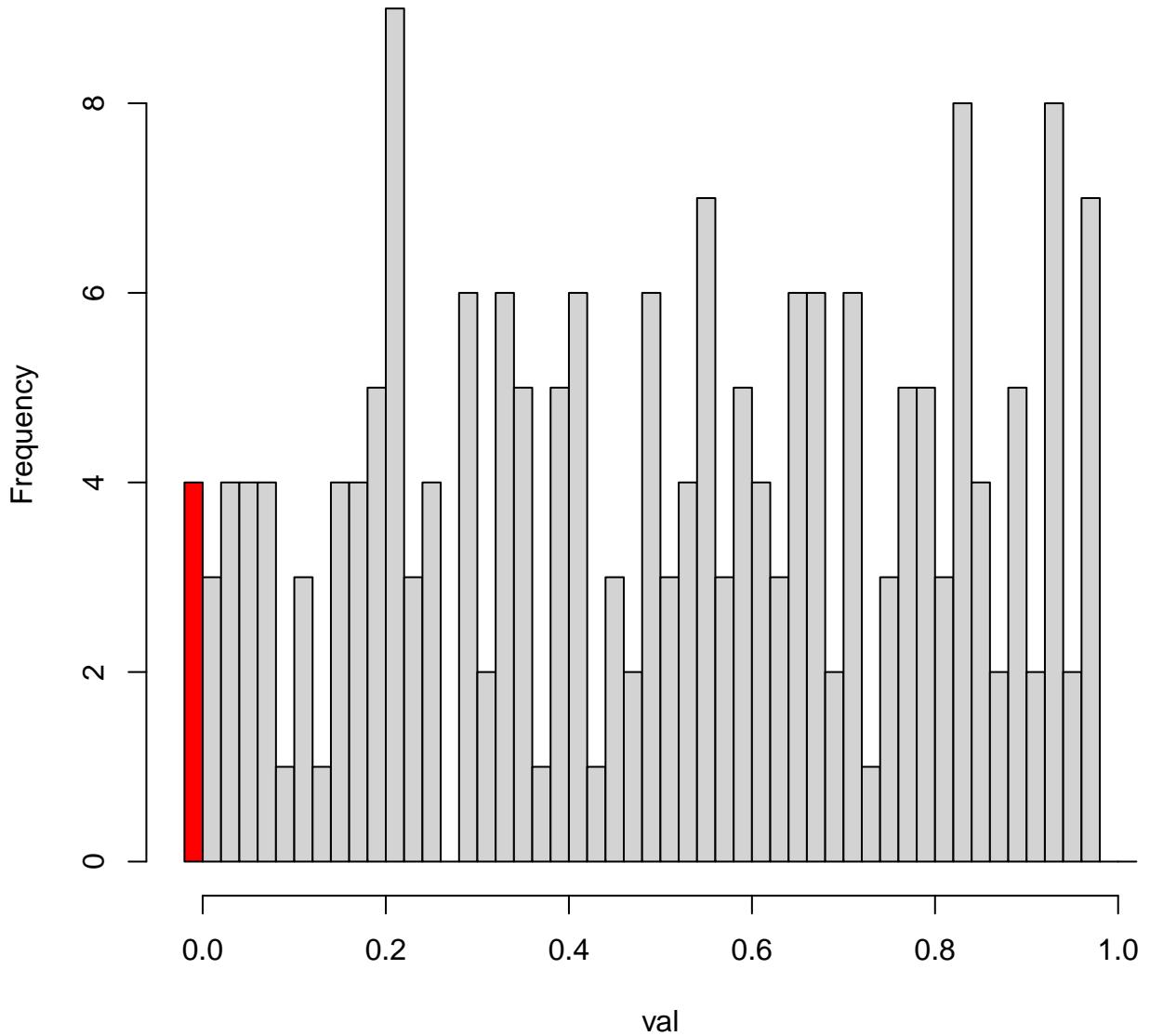
Simulated values, red line = fitted model. p-value (two.sided) = 0.8

DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted

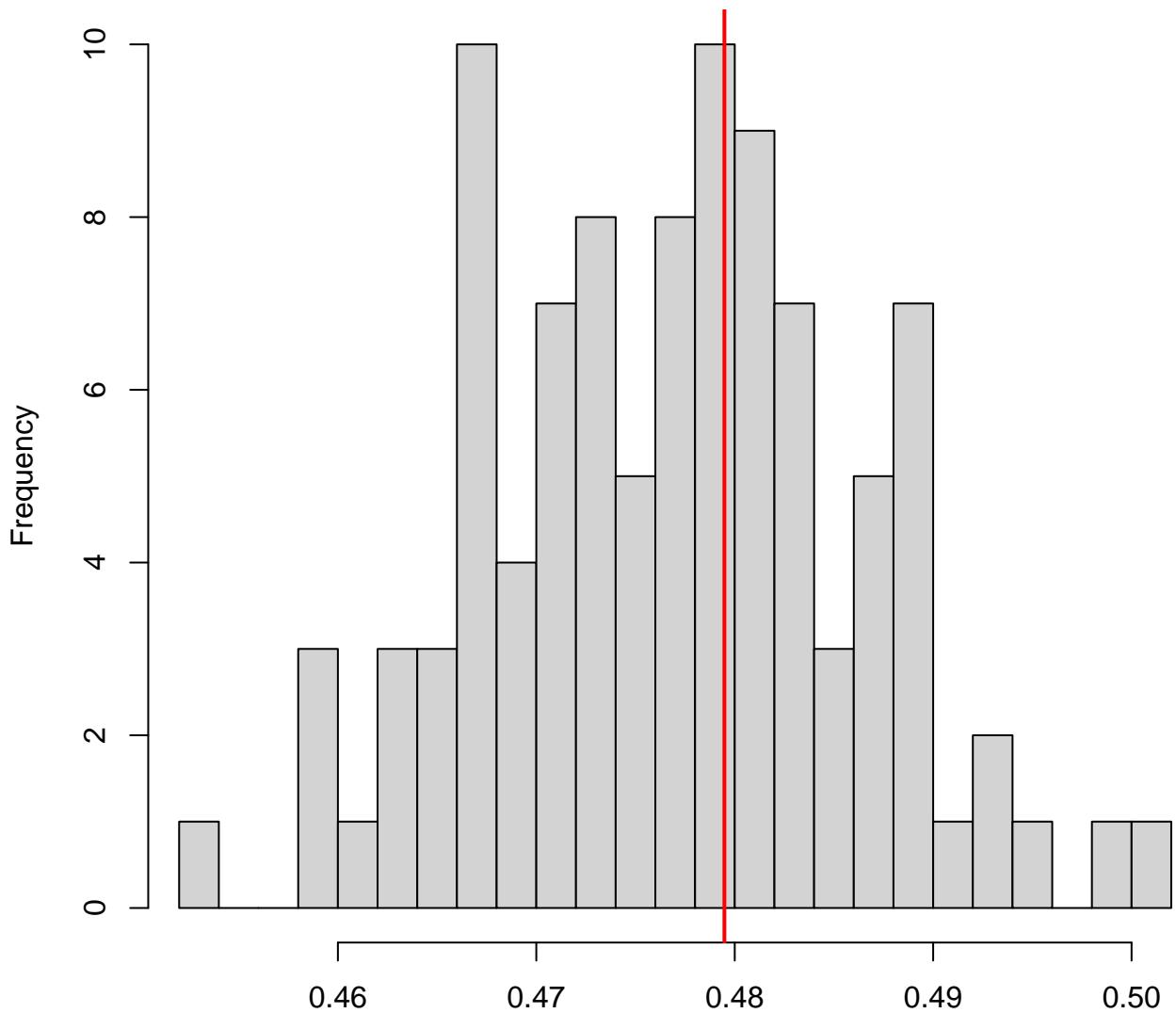


Simulated values, red line = fitted model. p-value (two.sided) = 0.4

Hist of DHARMA residuals
Outliers are marked red

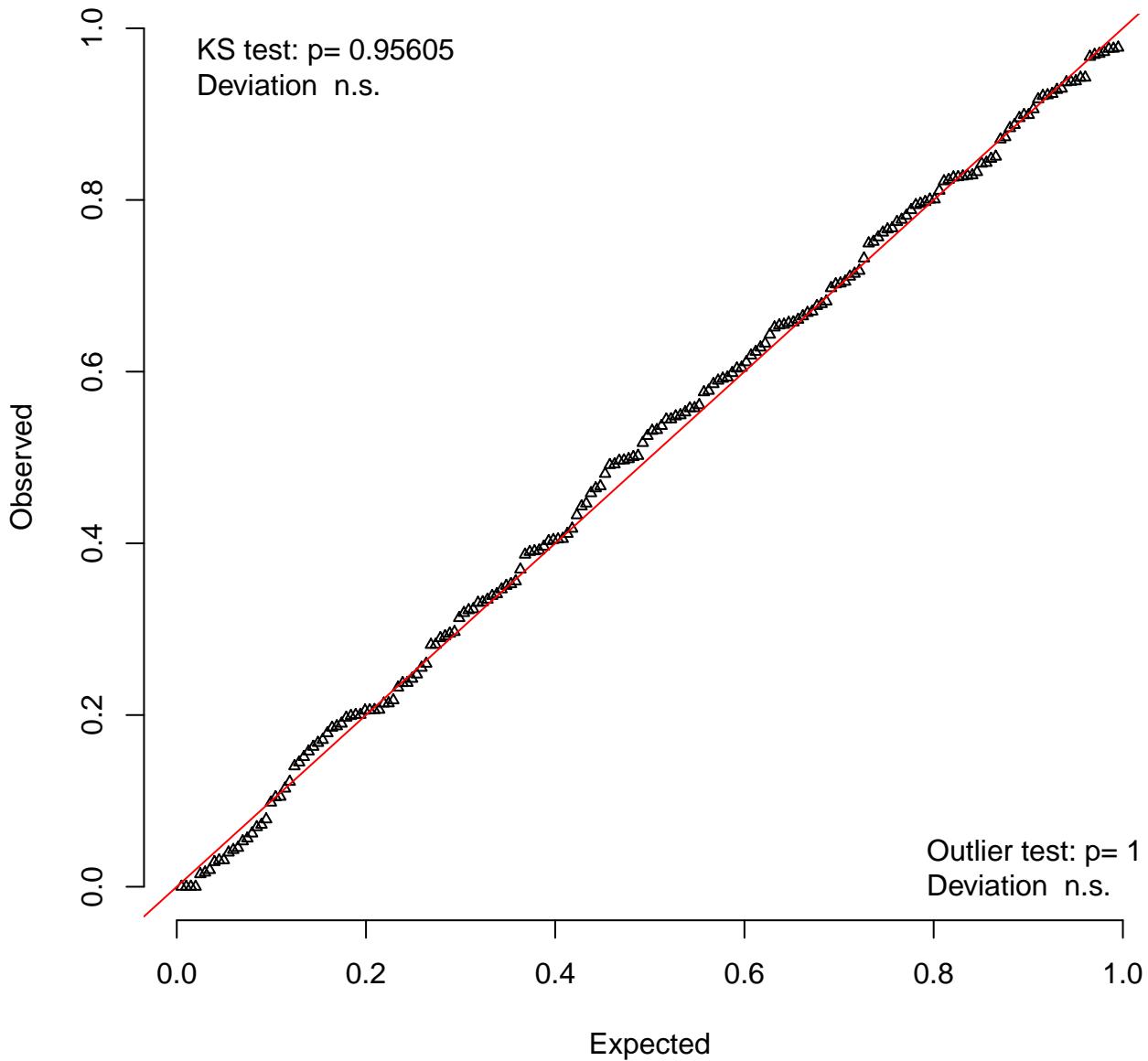


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

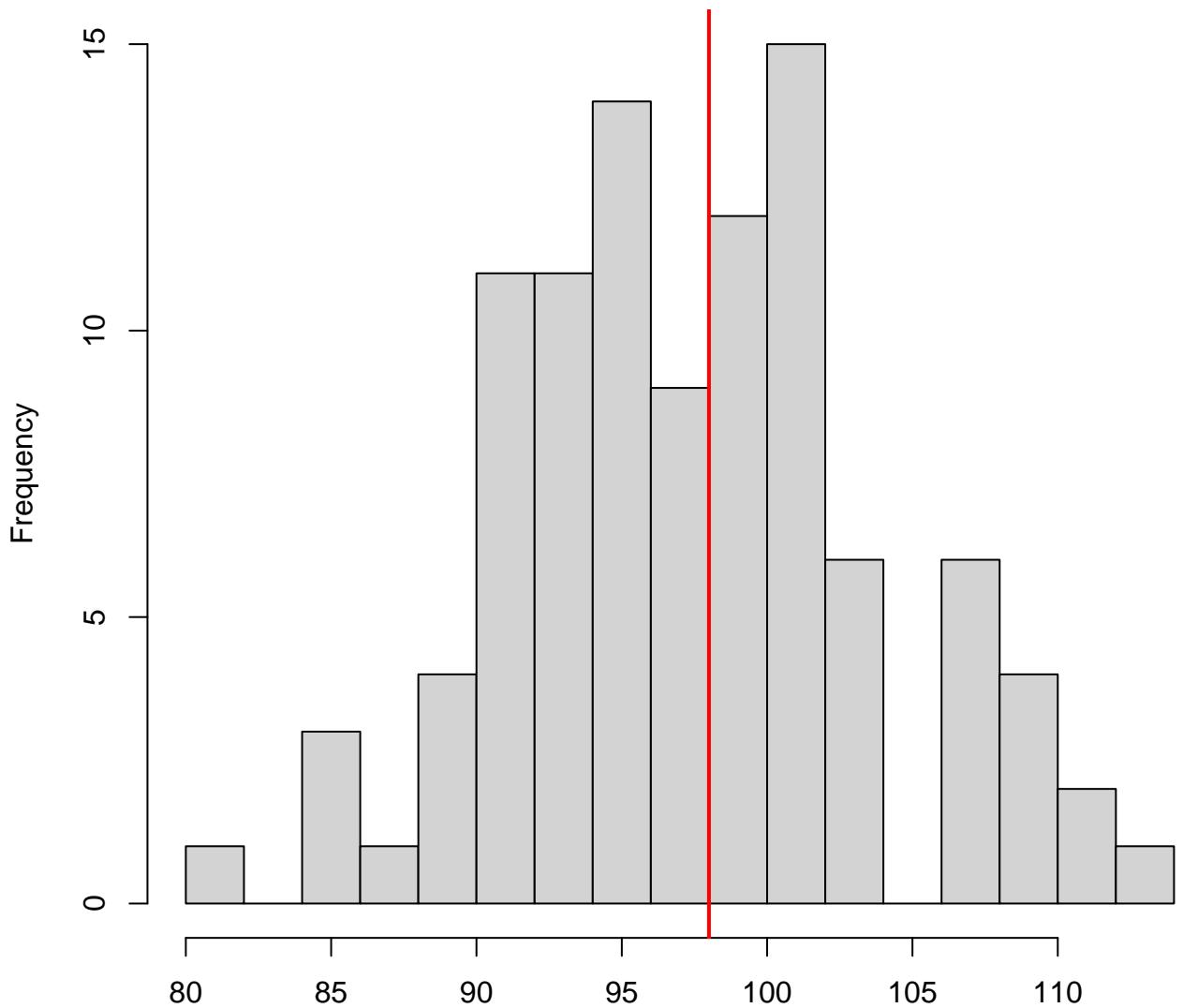


Simulated values, red line = fitted model. p-value (two.sided) = 0.8

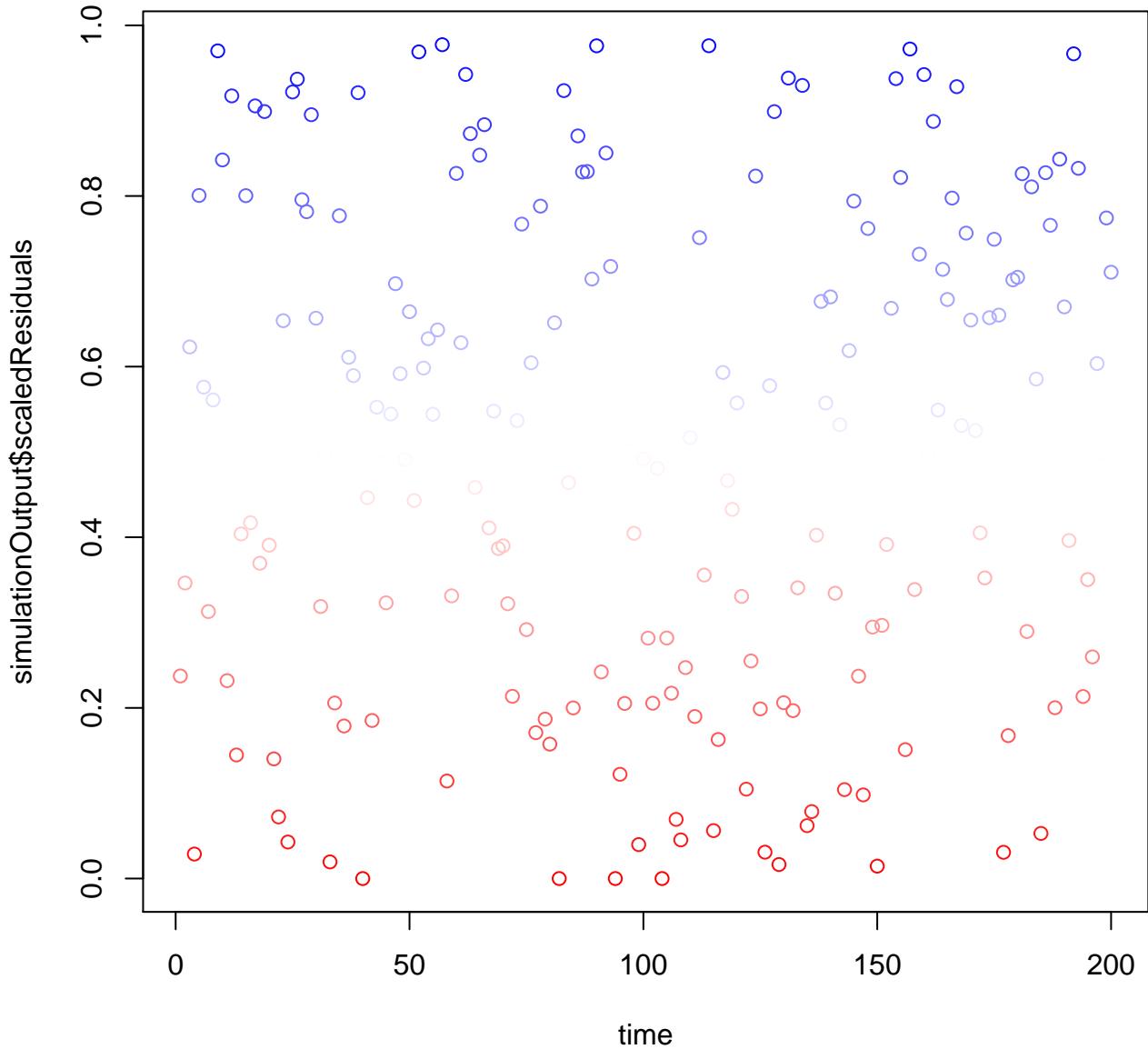
QQ plot residuals

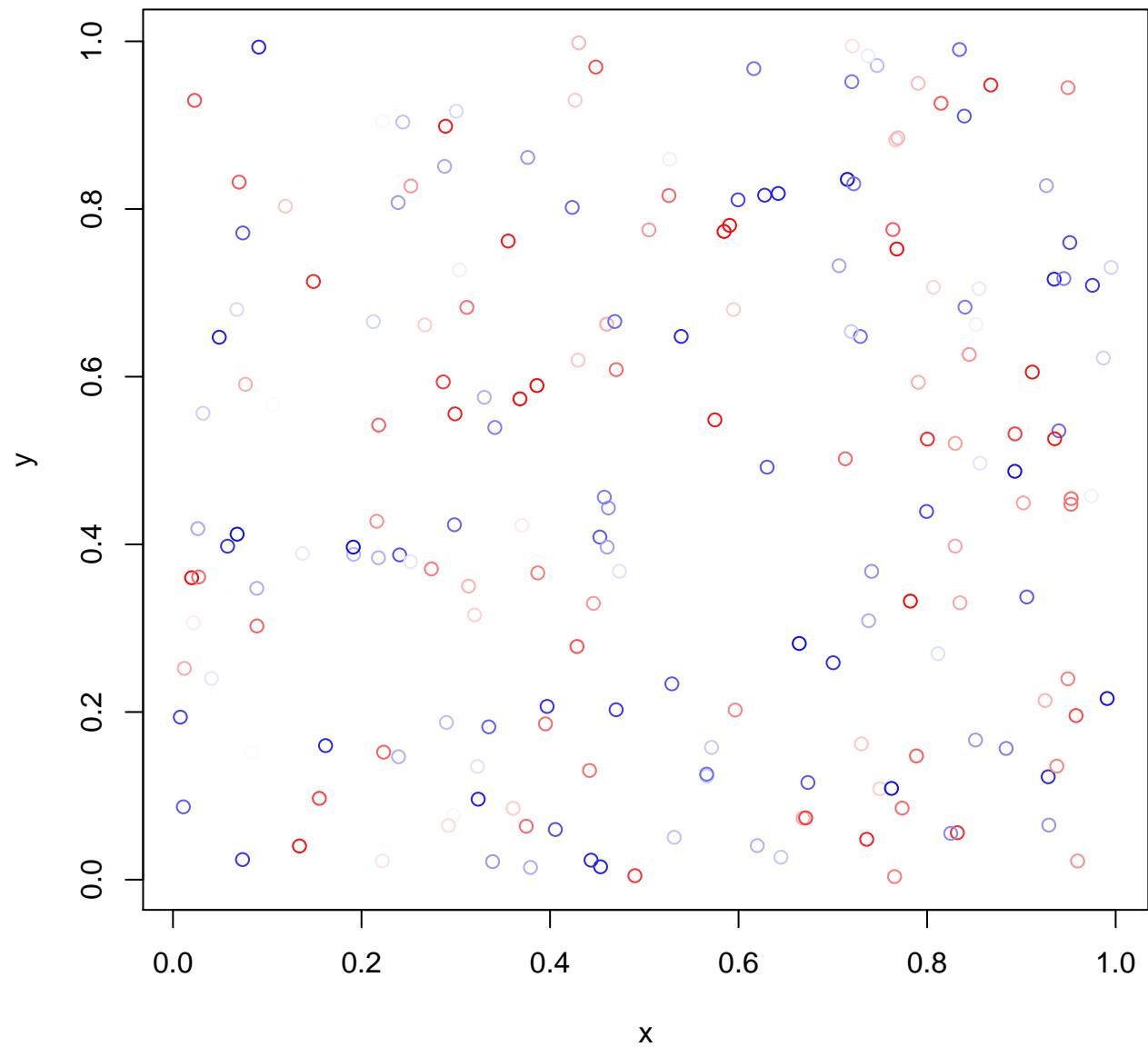


DHARMA zero-inflation test via comparison to expected zeros with simulation under $H_0 =$ fitted model

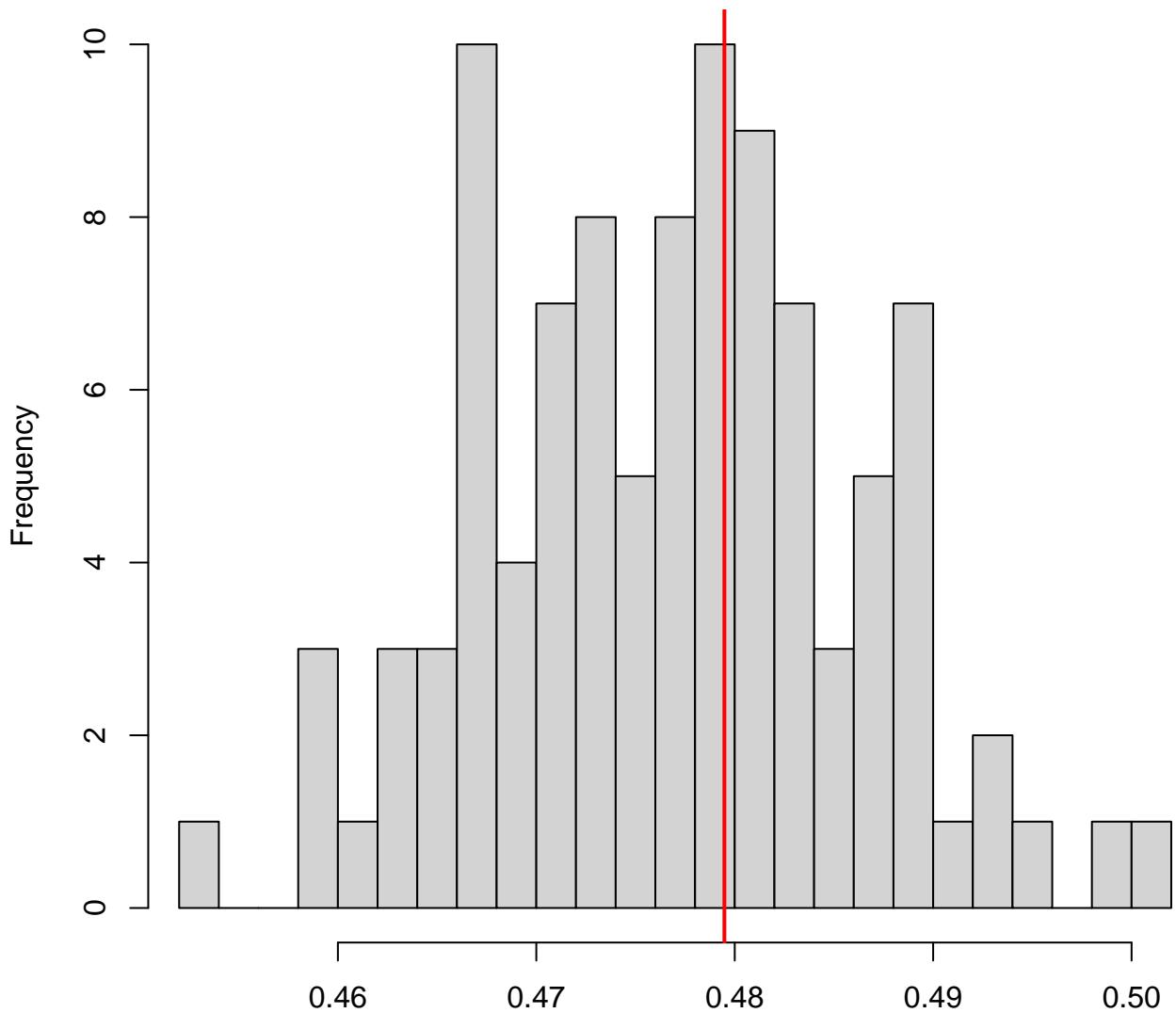


Simulated values, red line = fitted model. p-value (two.sided) = 0.98



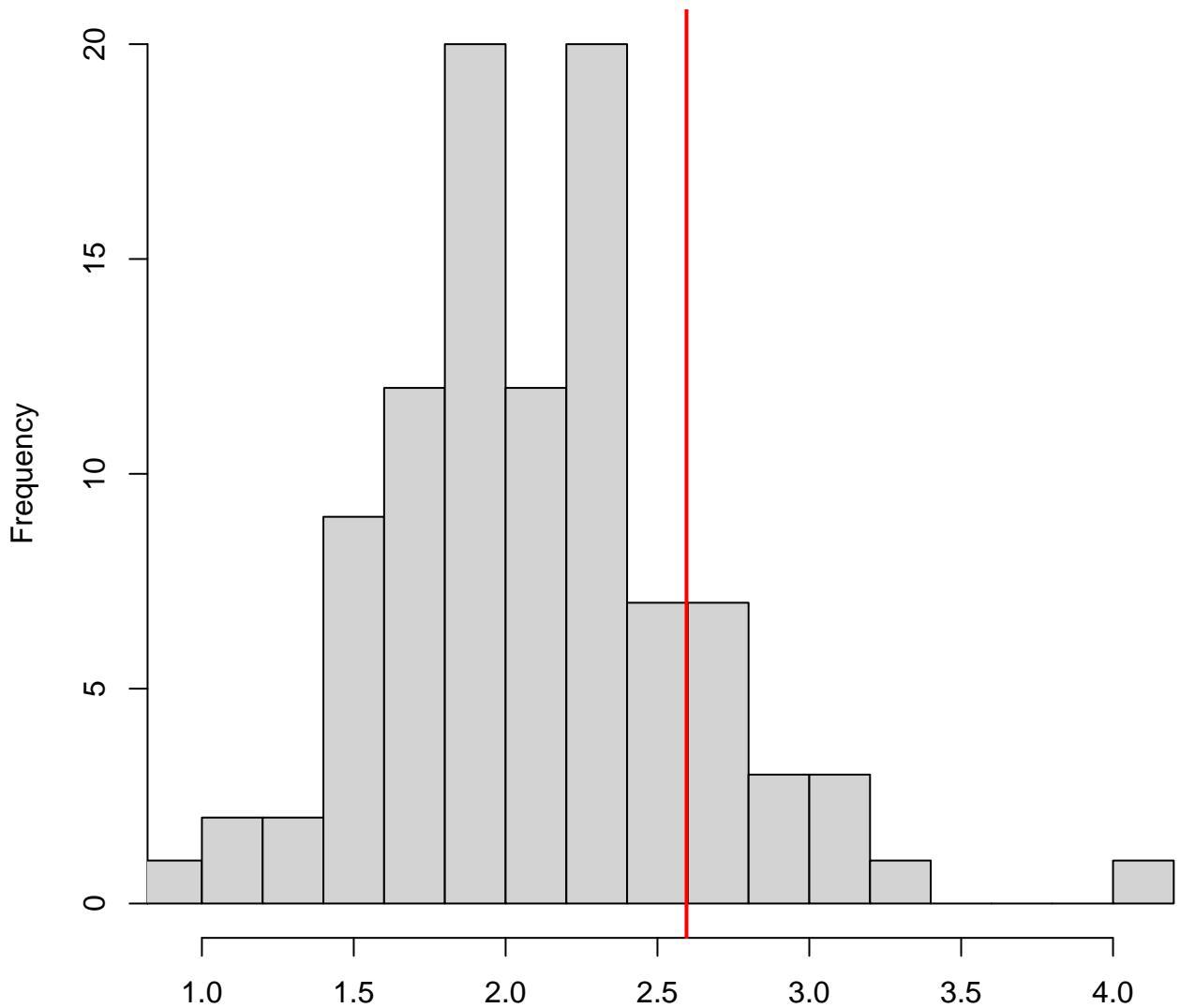


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.8

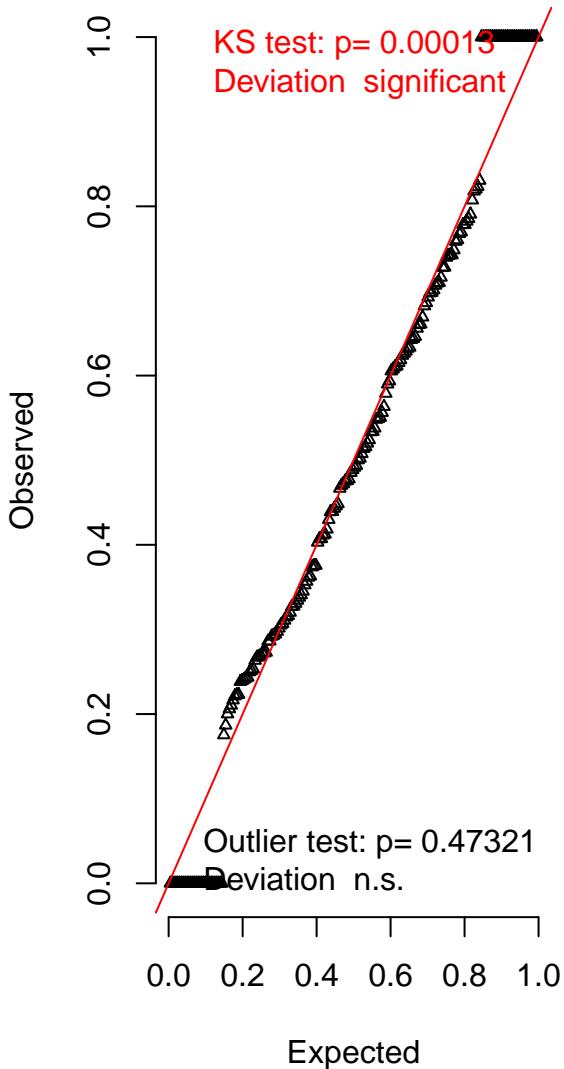
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



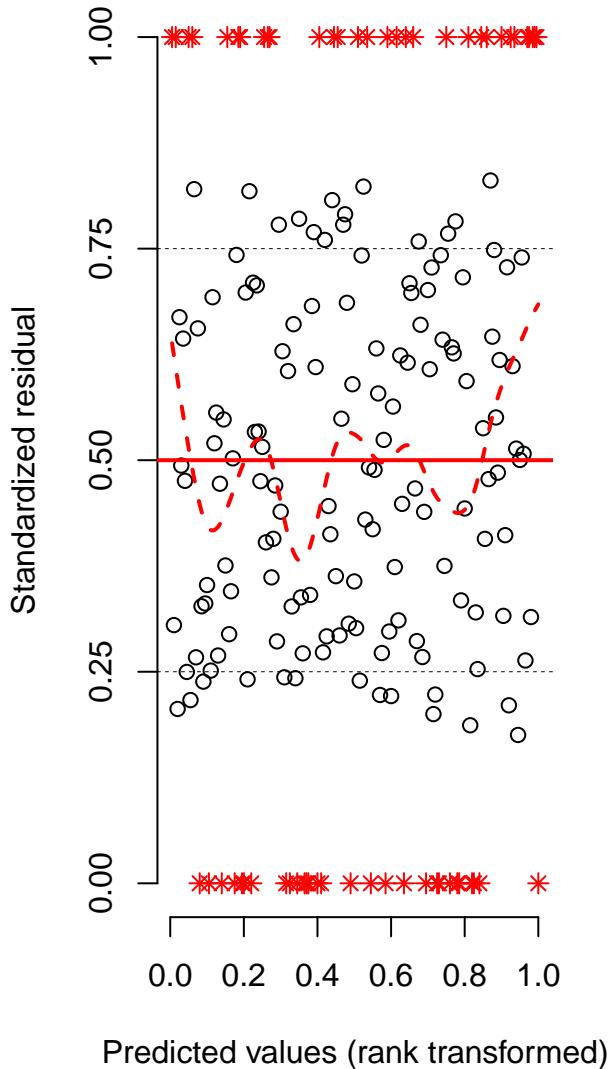
Simulated values, red line = fitted model. p-value (two.sided) = 0.3

DHARMA scaled residual plots

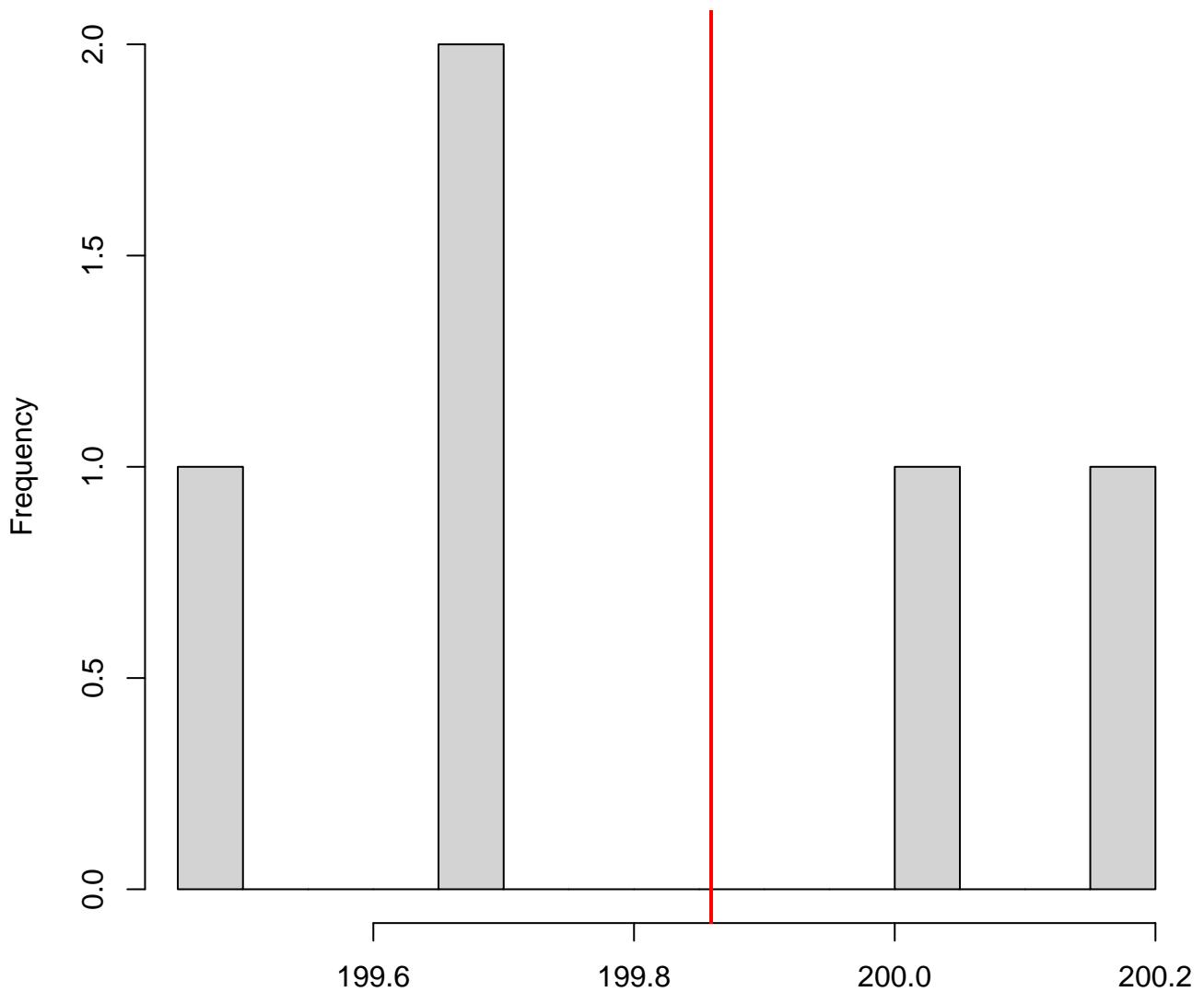
QQ plot residuals



Residual vs. predicted lines should match

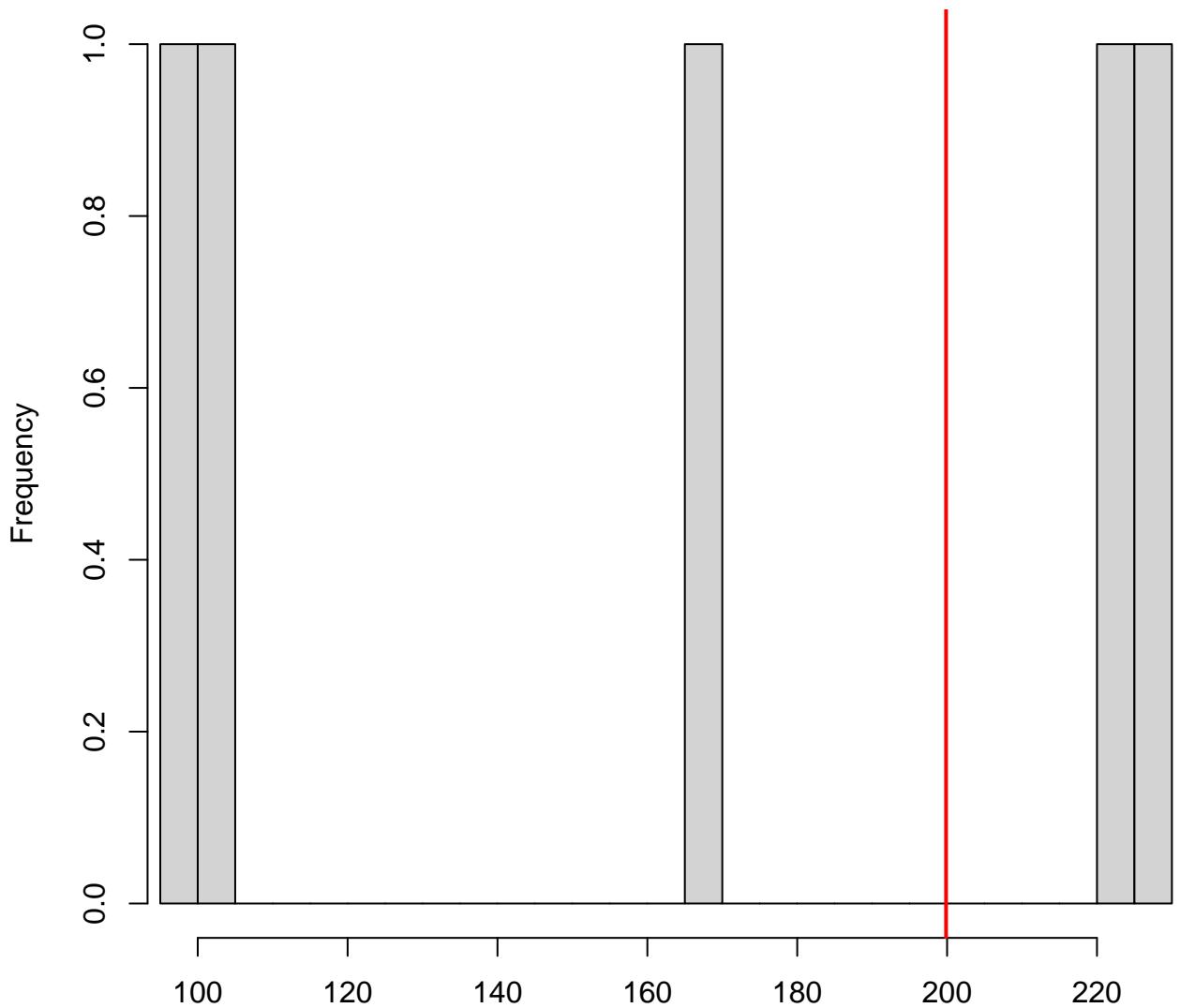


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



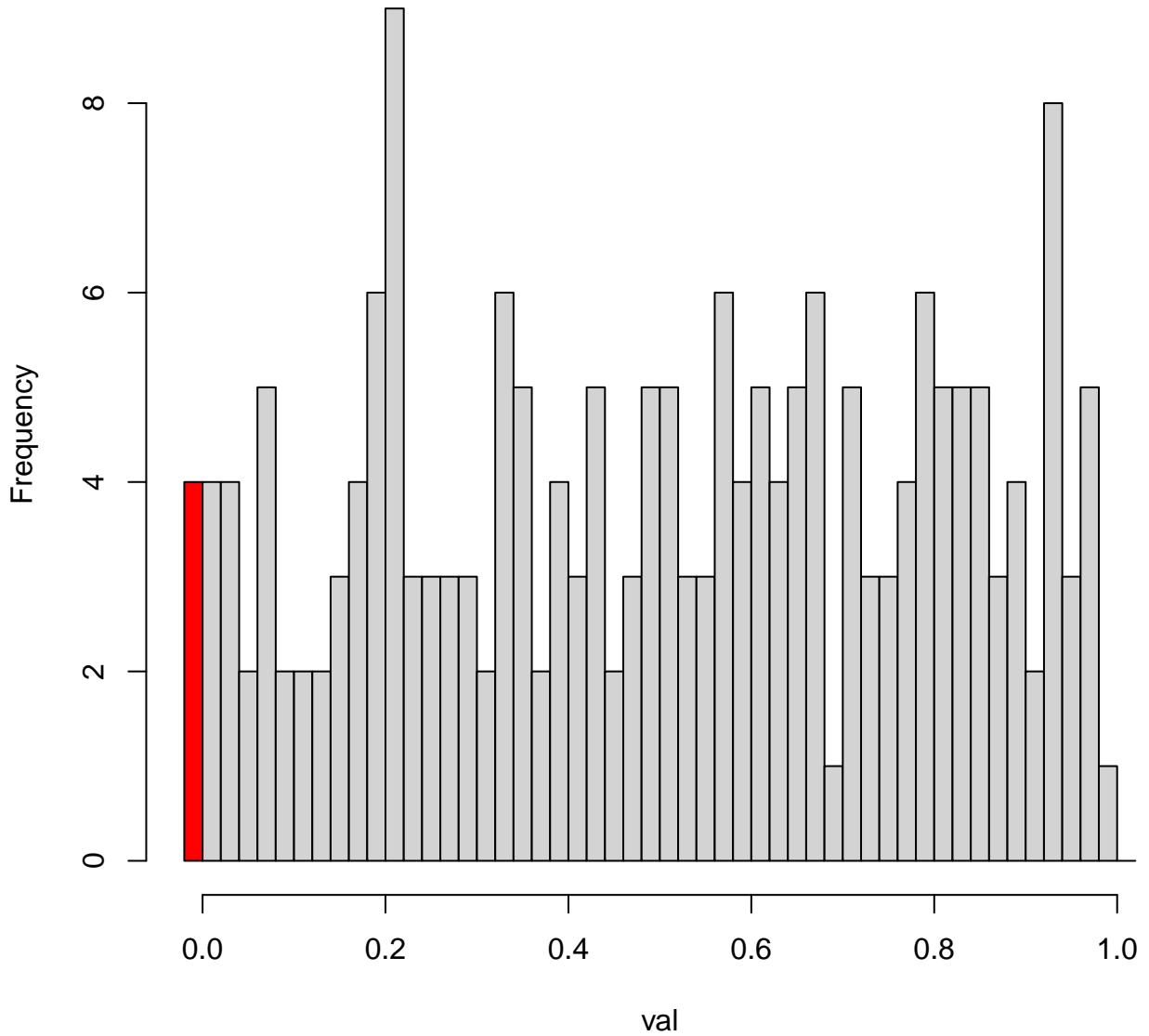
Simulated values, red line = fitted model. p-value (two.sided) = 0.8

DHARMa nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted

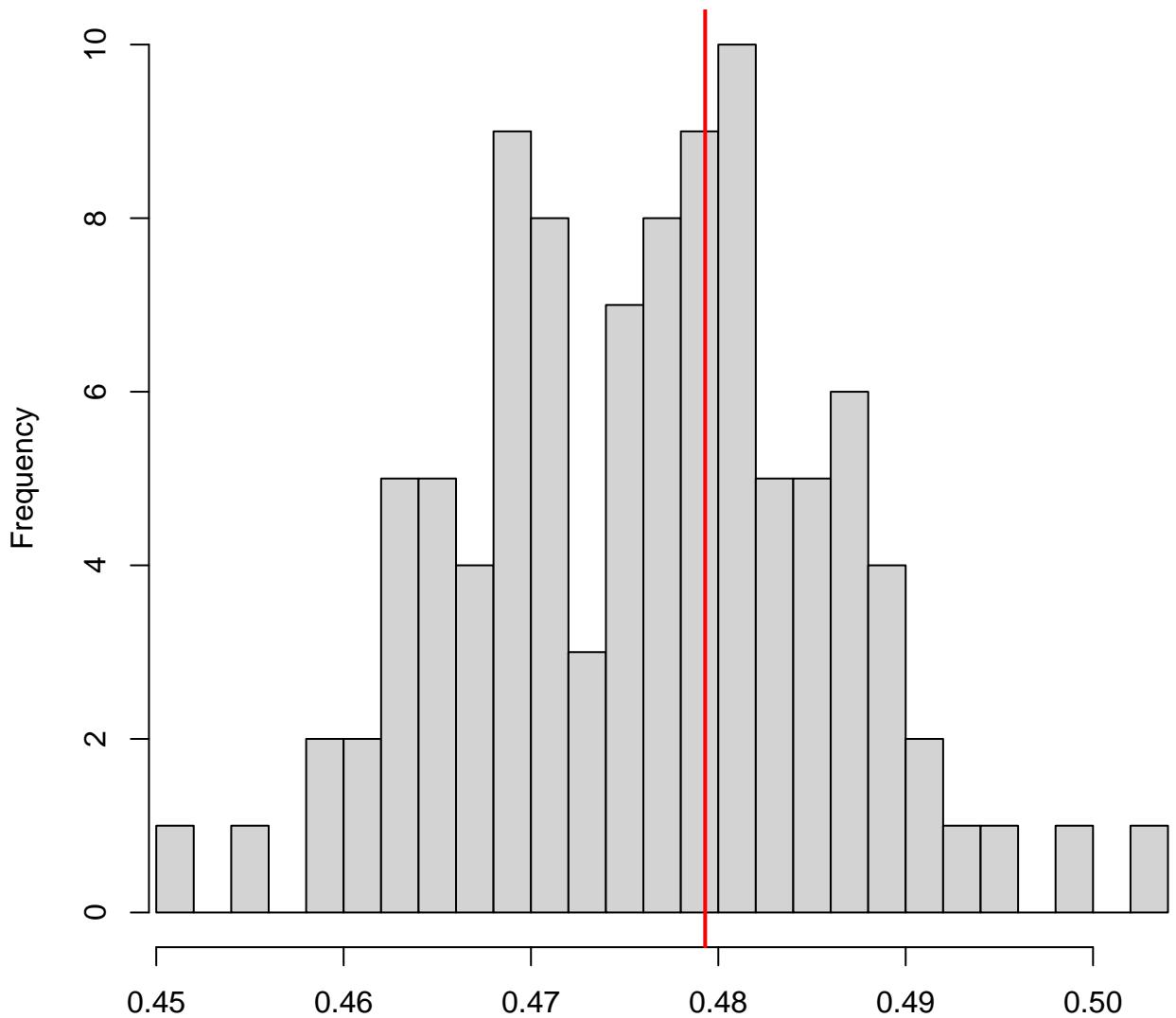


Simulated values, red line = fitted model. p-value (two.sided) = 0.8

Hist of DHARMA residuals
Outliers are marked red

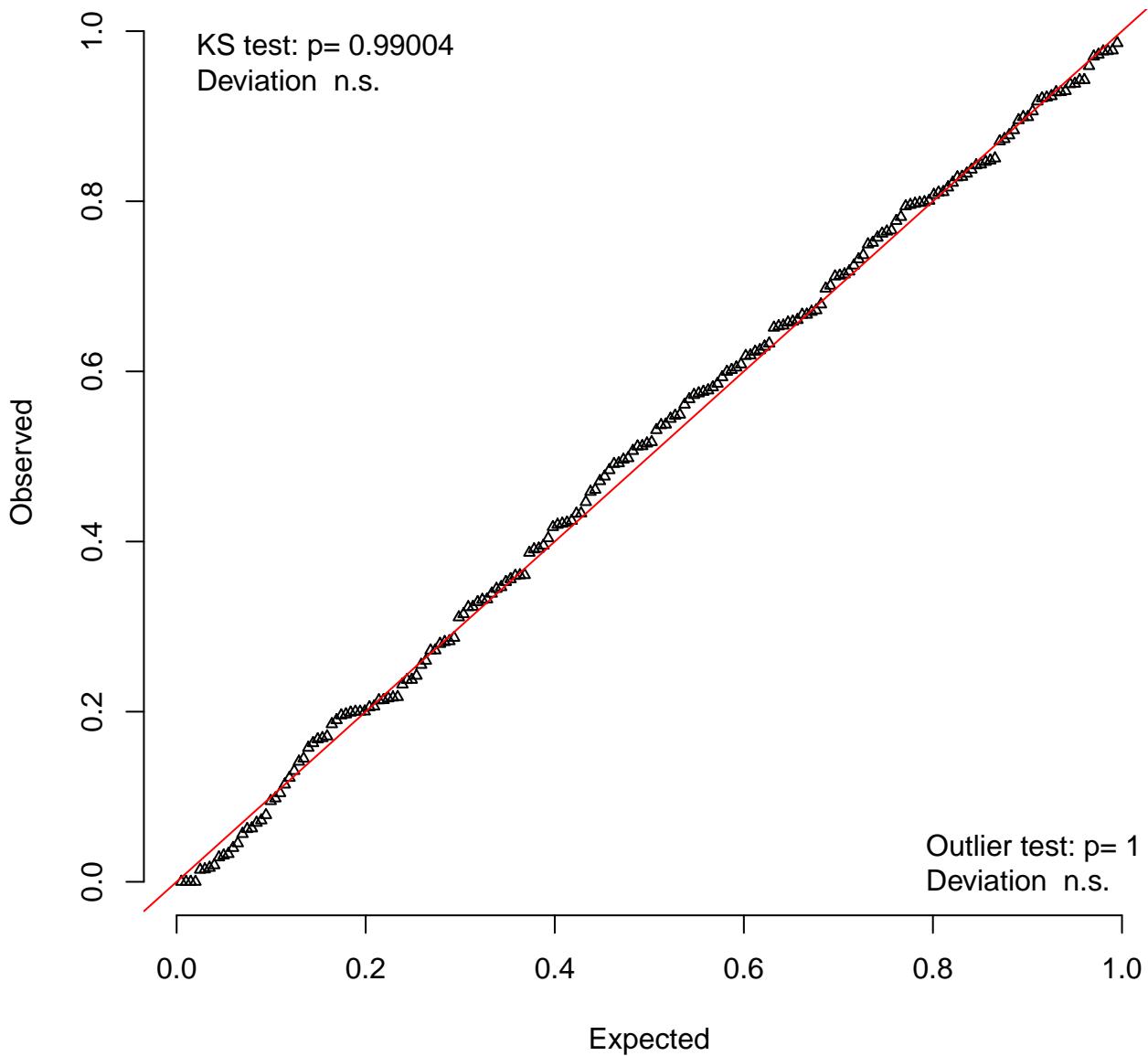


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

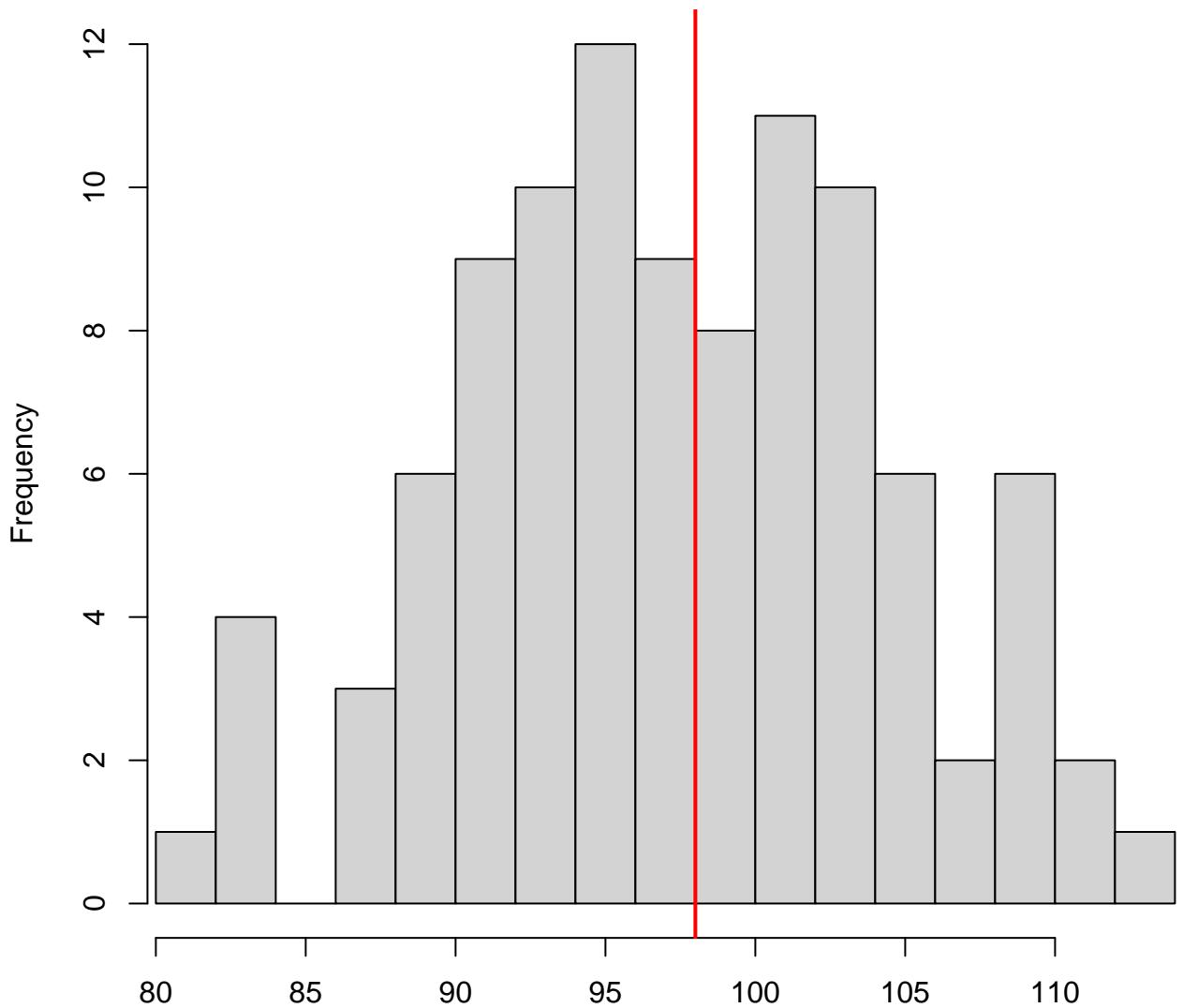


Simulated values, red line = fitted model. p-value (two.sided) = 0.8

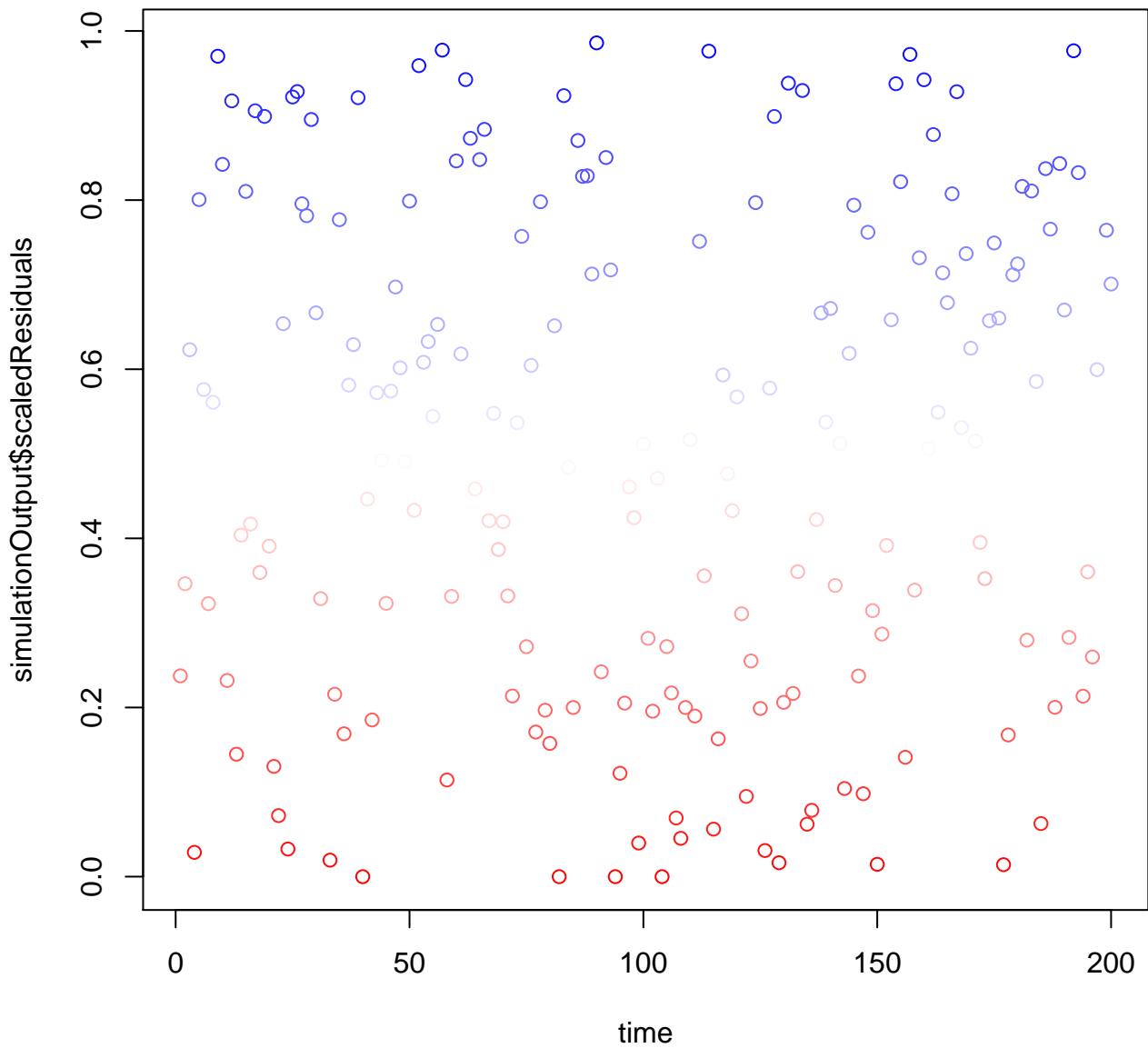
QQ plot residuals

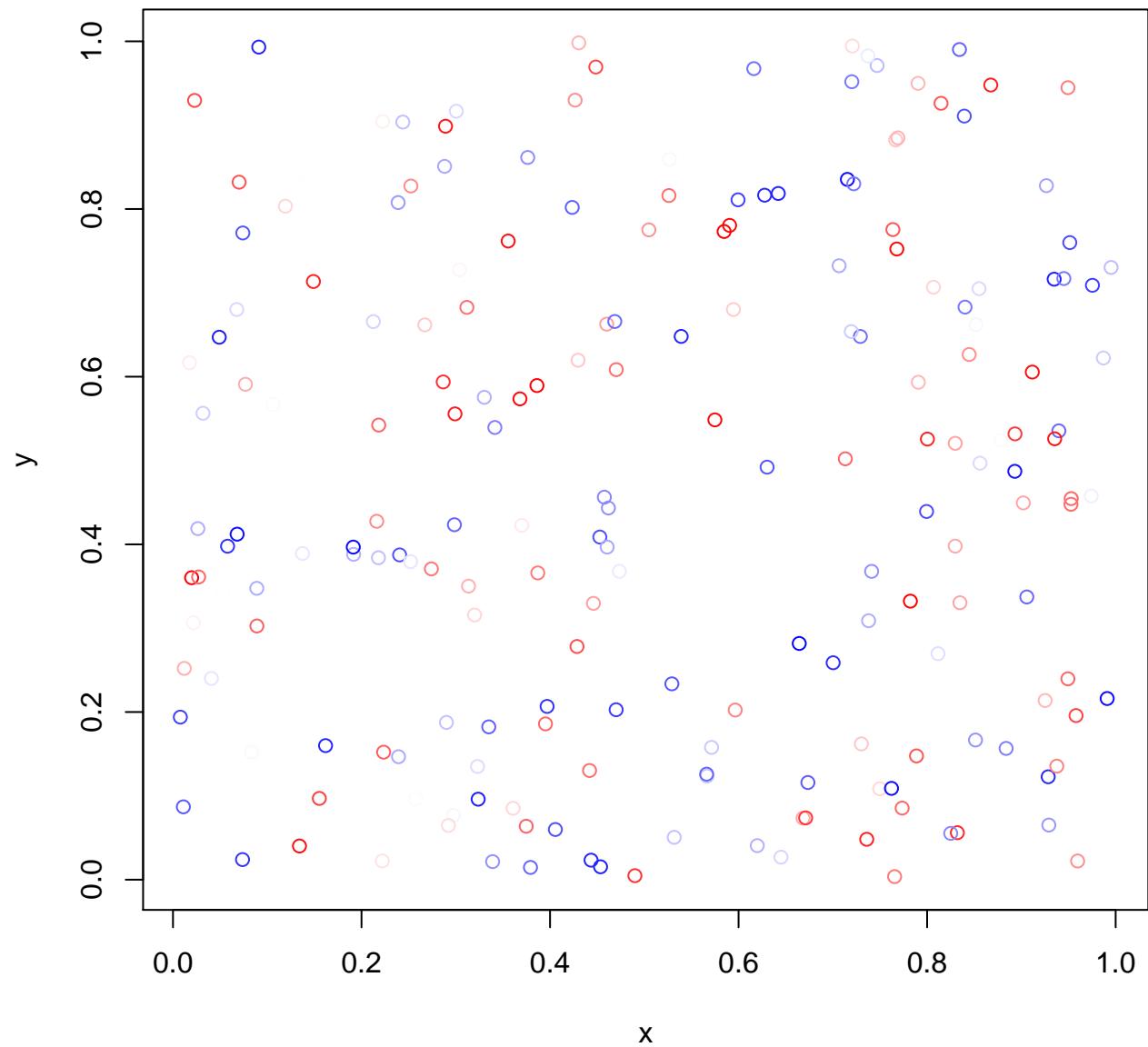


DHARMA zero-inflation test via comparison to expected zeros with simulation under H0 = fitted model

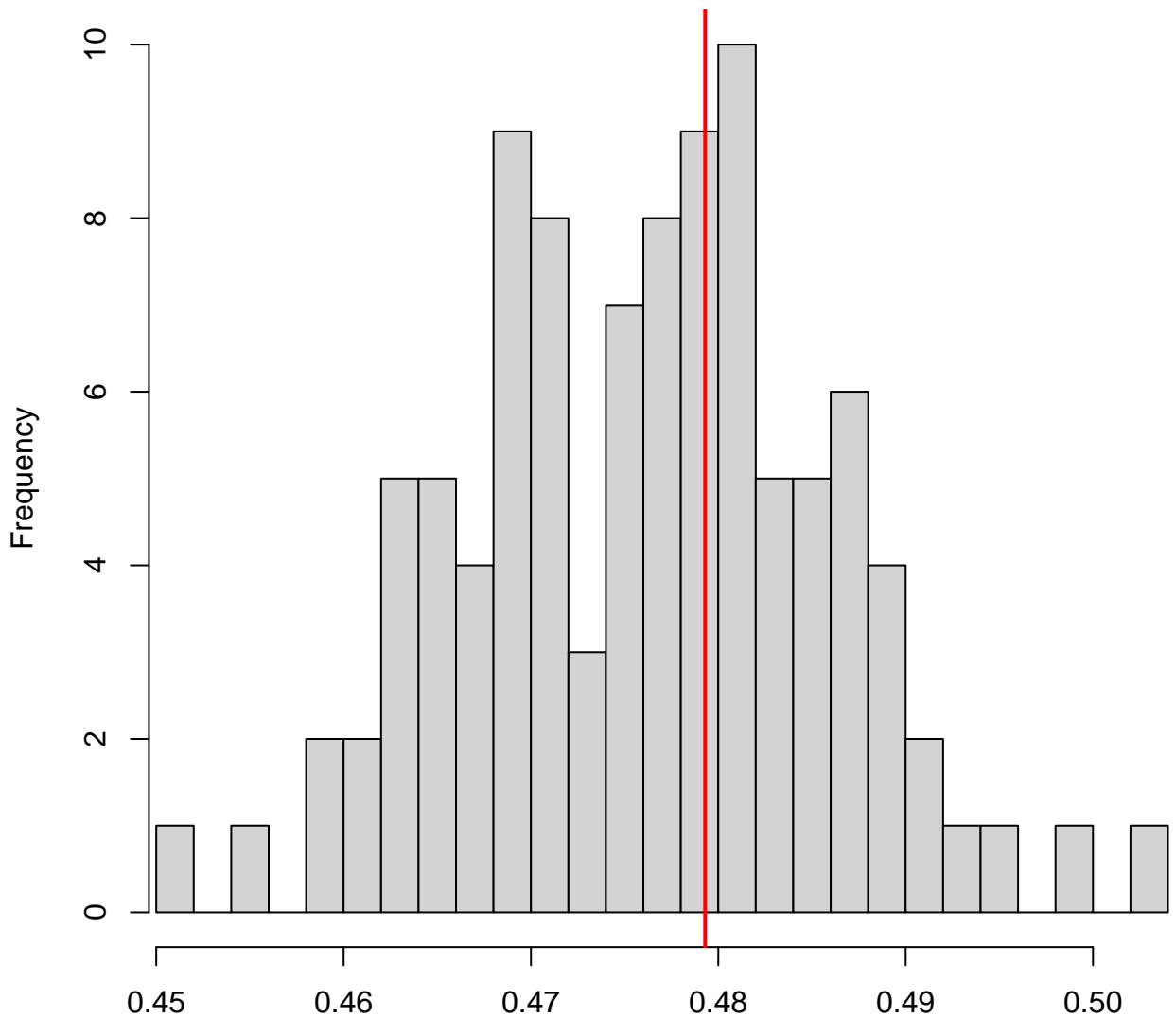


Simulated values, red line = fitted model. p-value (two.sided) = 1



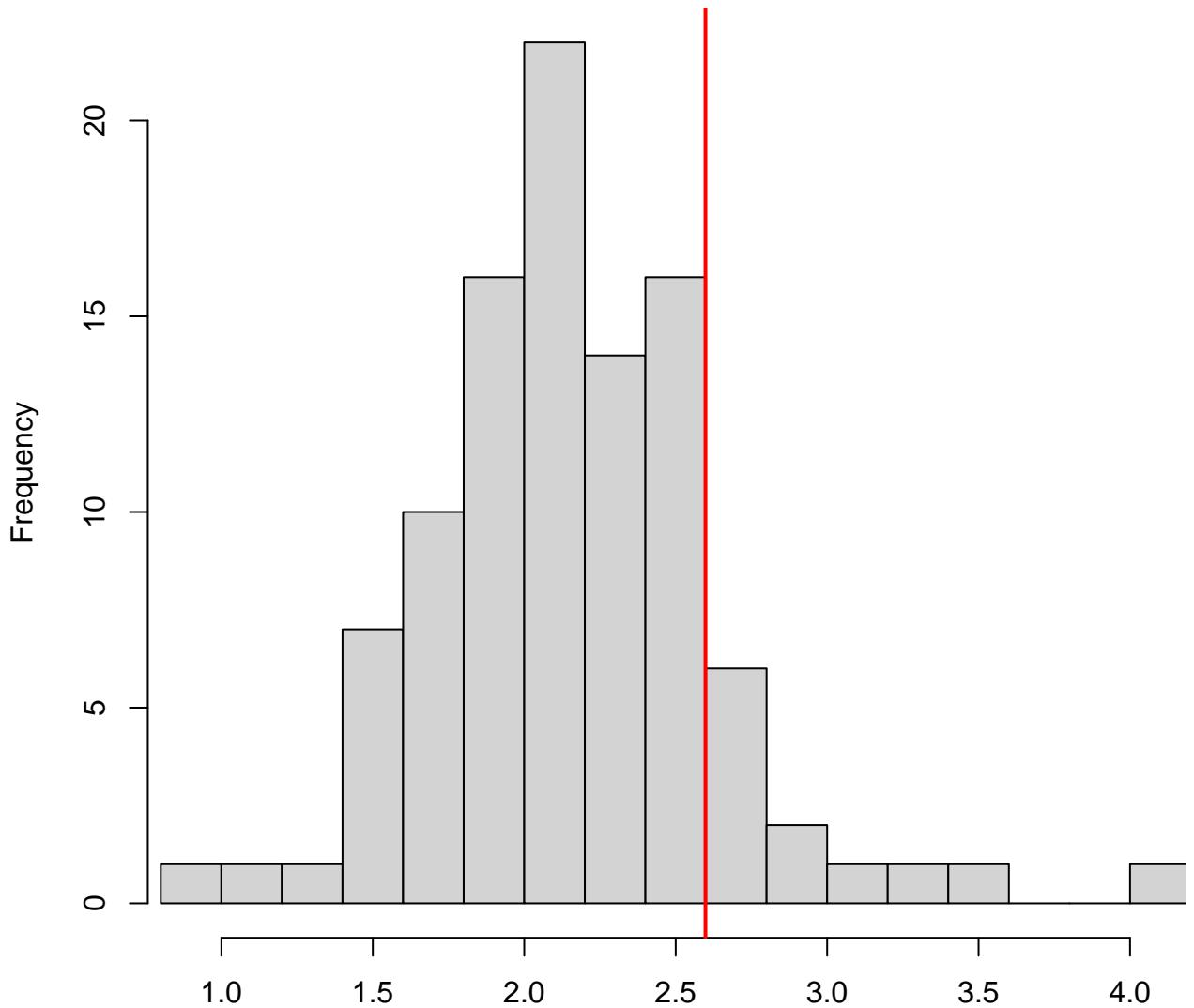


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.8

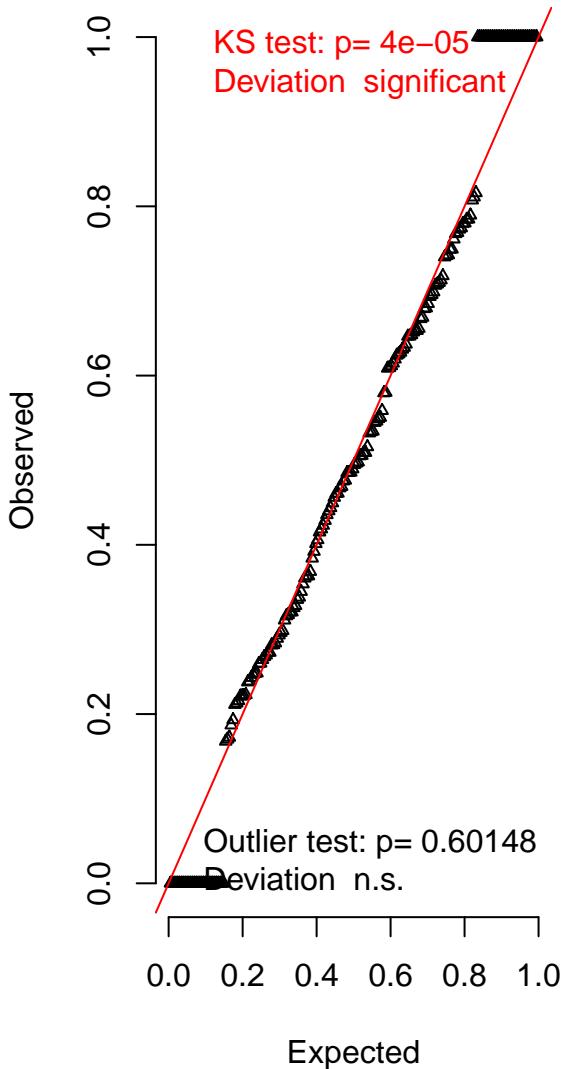
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



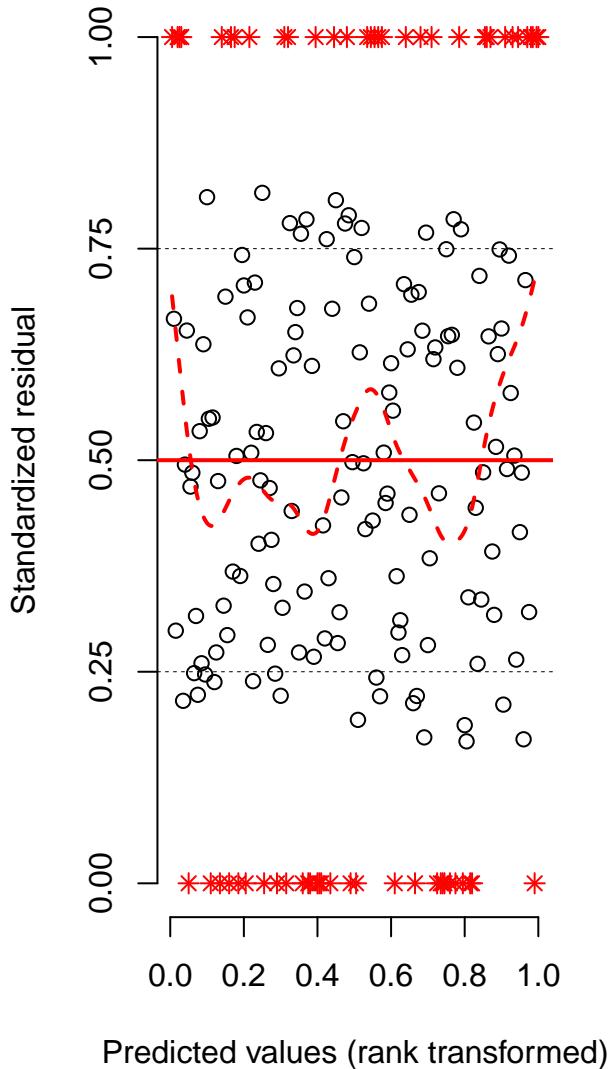
Simulated values, red line = fitted model. p-value (two.sided) = 0.24

DHARMA scaled residual plots

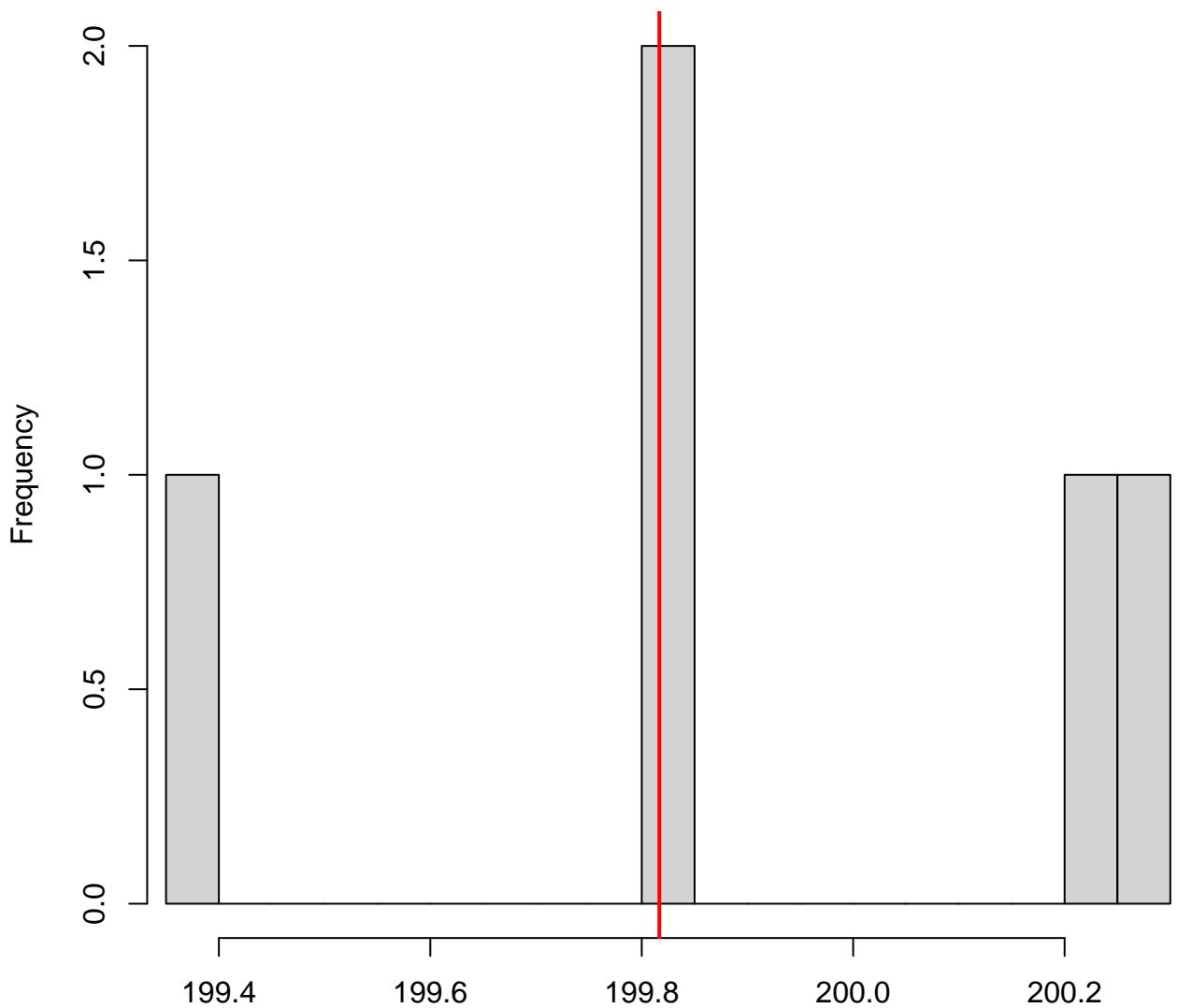
QQ plot residuals



Residual vs. predicted lines should match

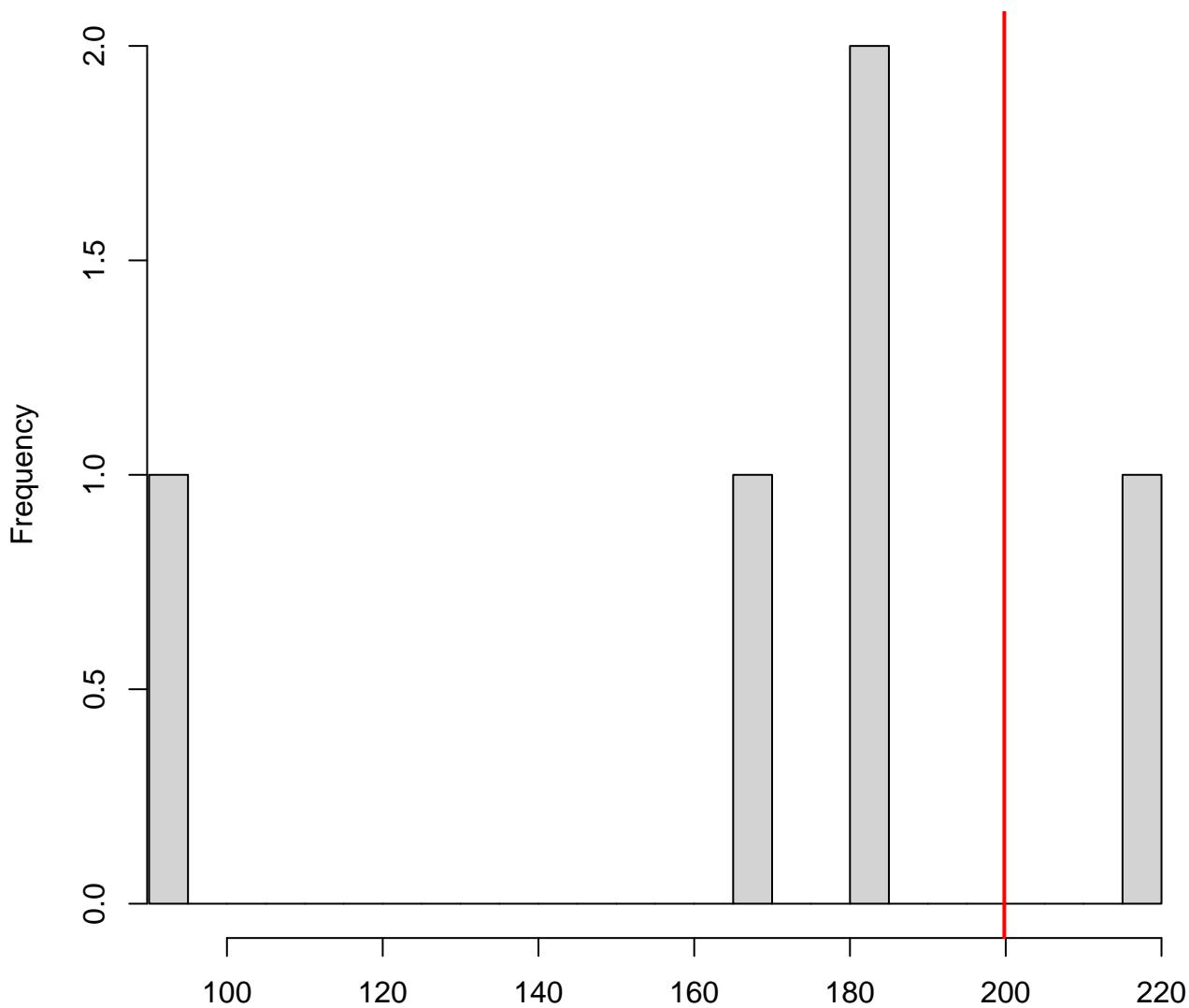


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



Simulated values, red line = fitted model. p-value (two.sided) = 0.8

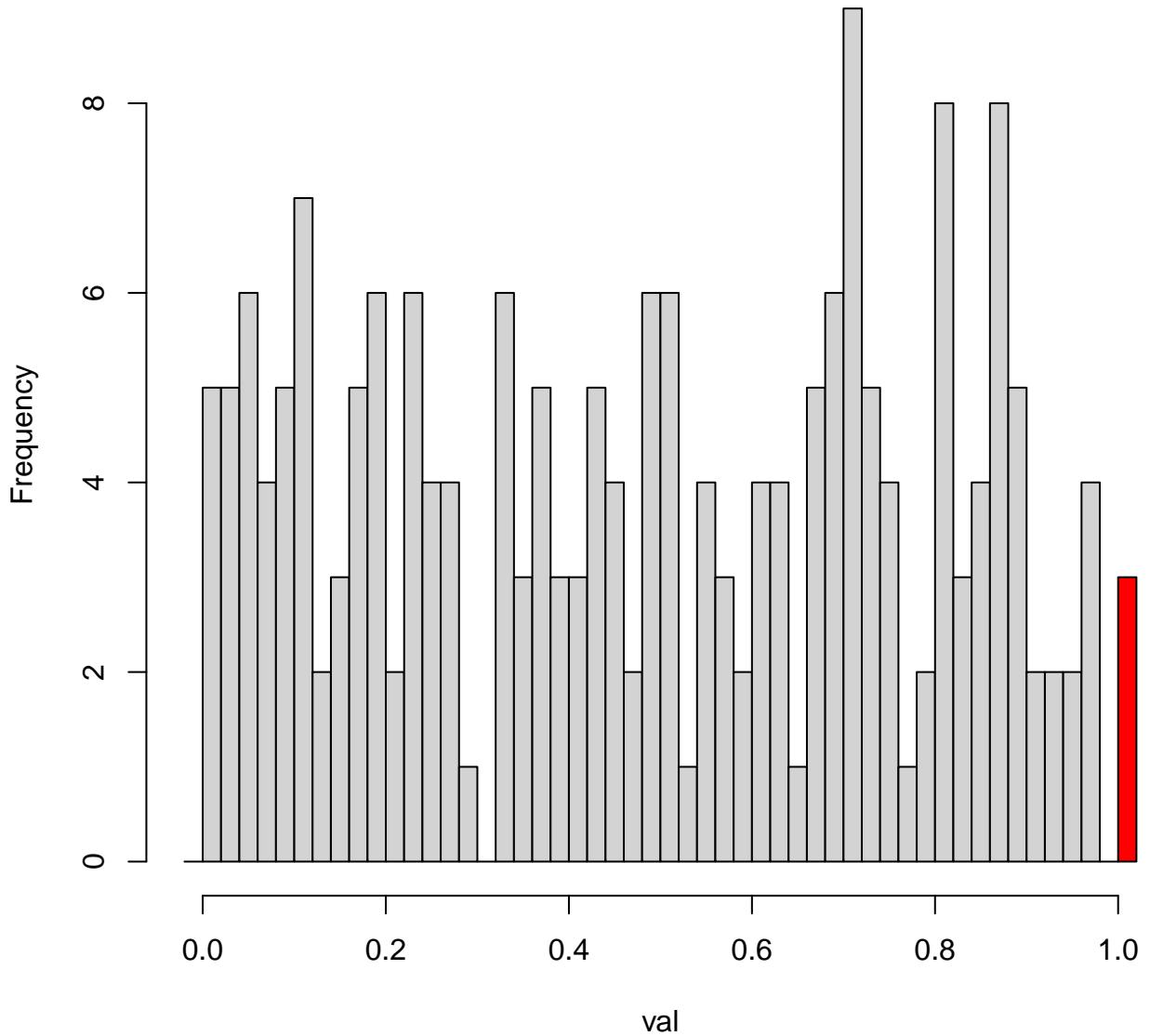
DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



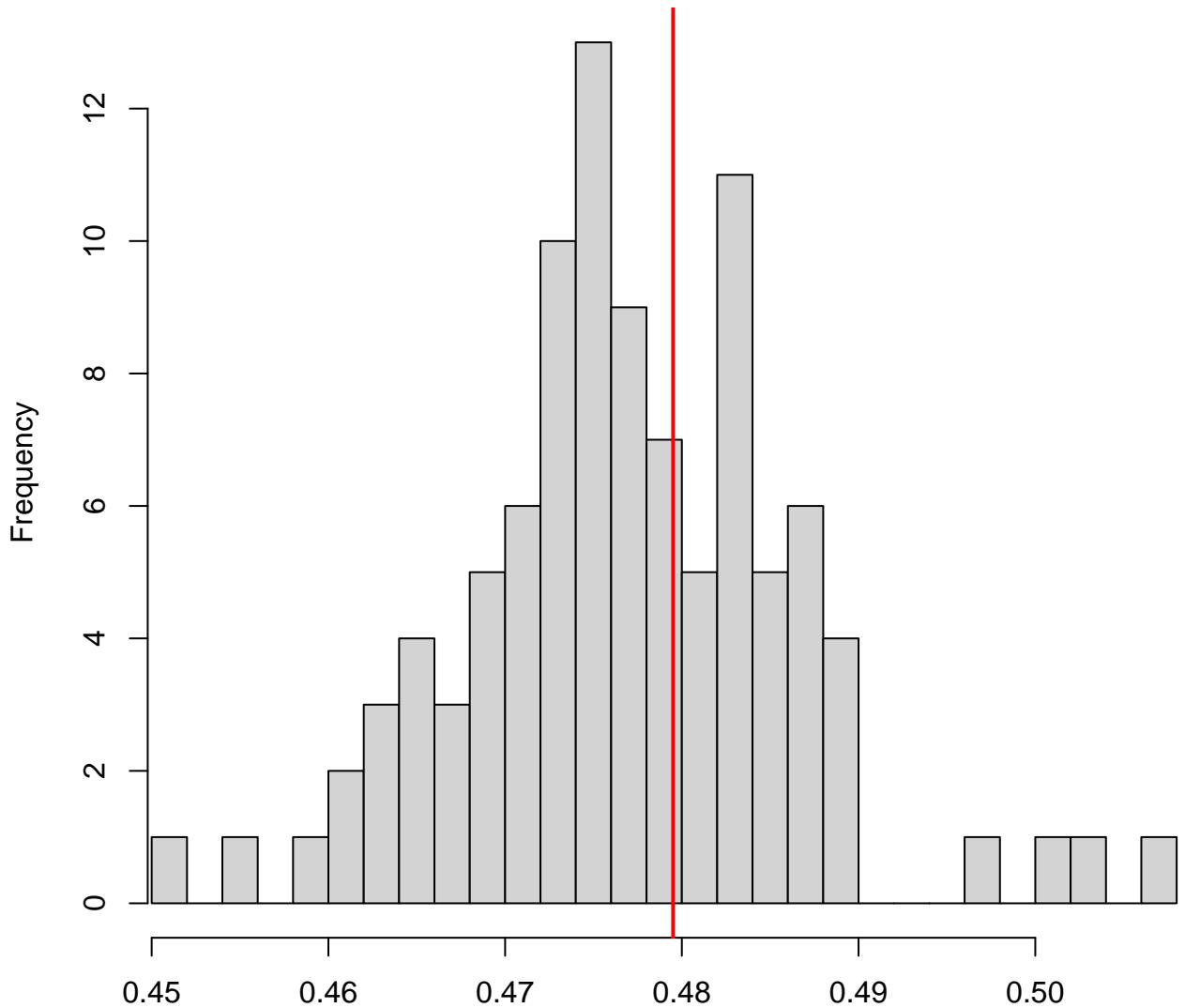
Simulated values, red line = fitted model. p-value (two.sided) = 0.4

Hist of DHARMa residuals

Outliers are marked red

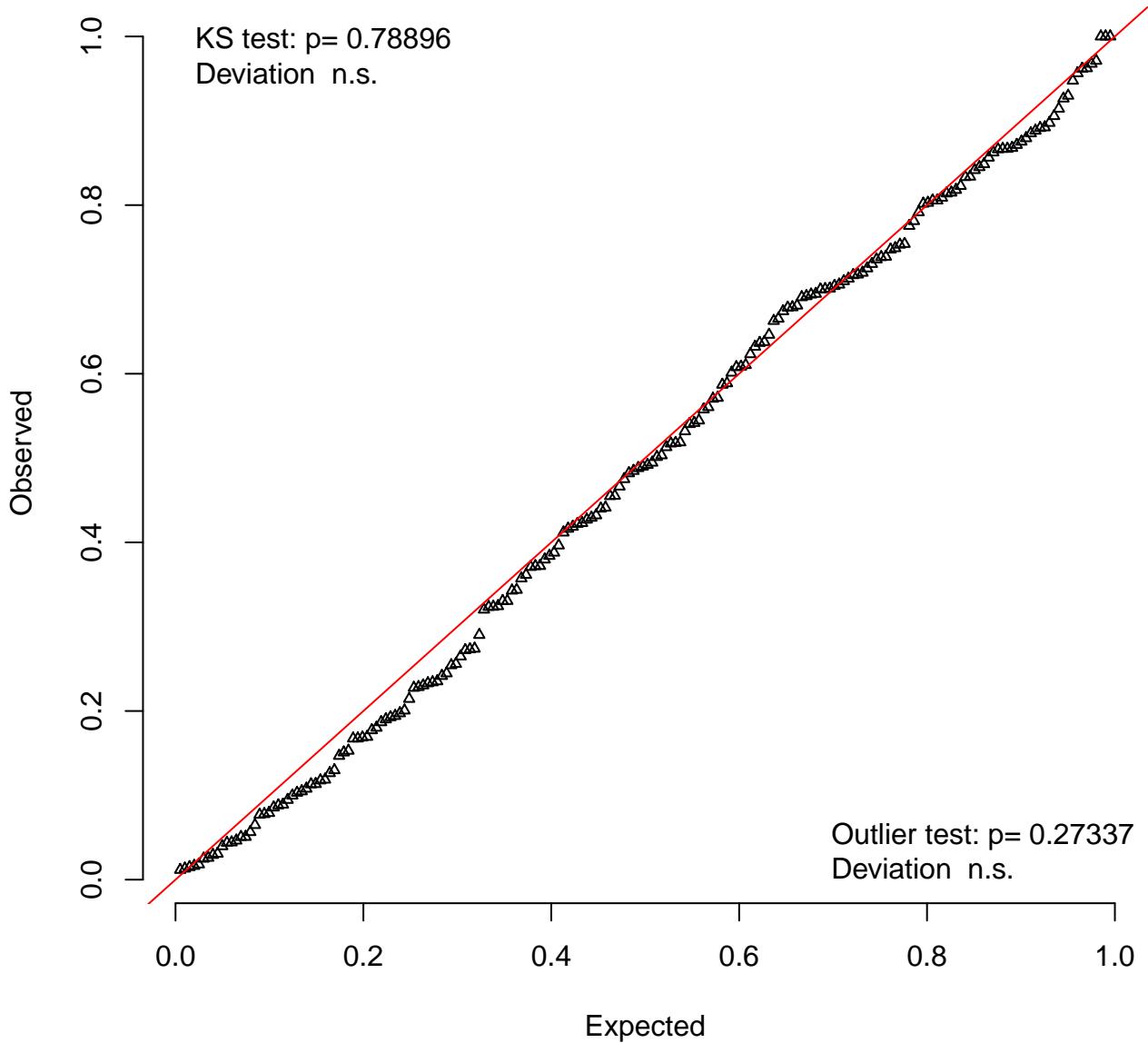


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

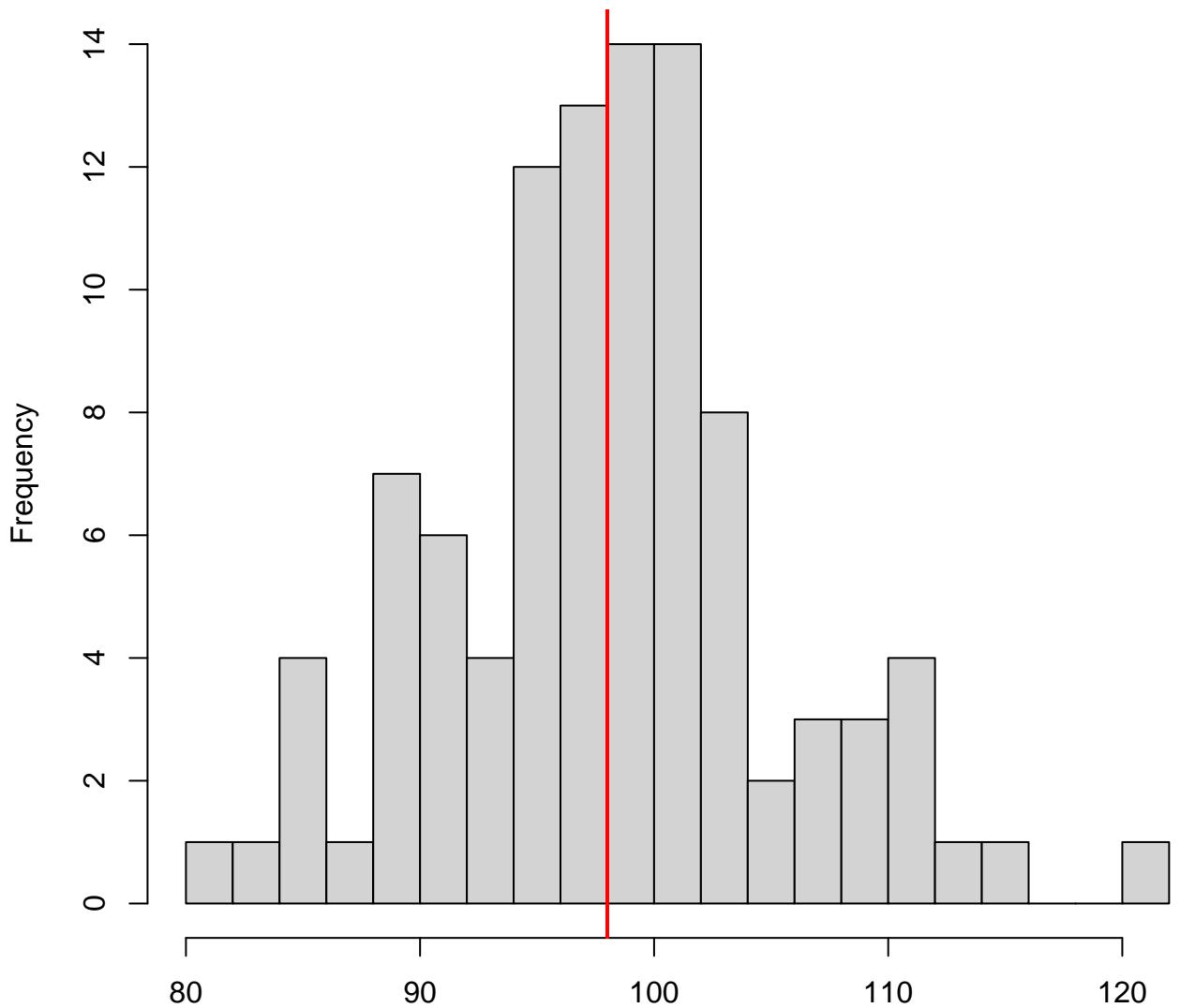


Simulated values, red line = fitted model. p-value (two.sided) = 0.74

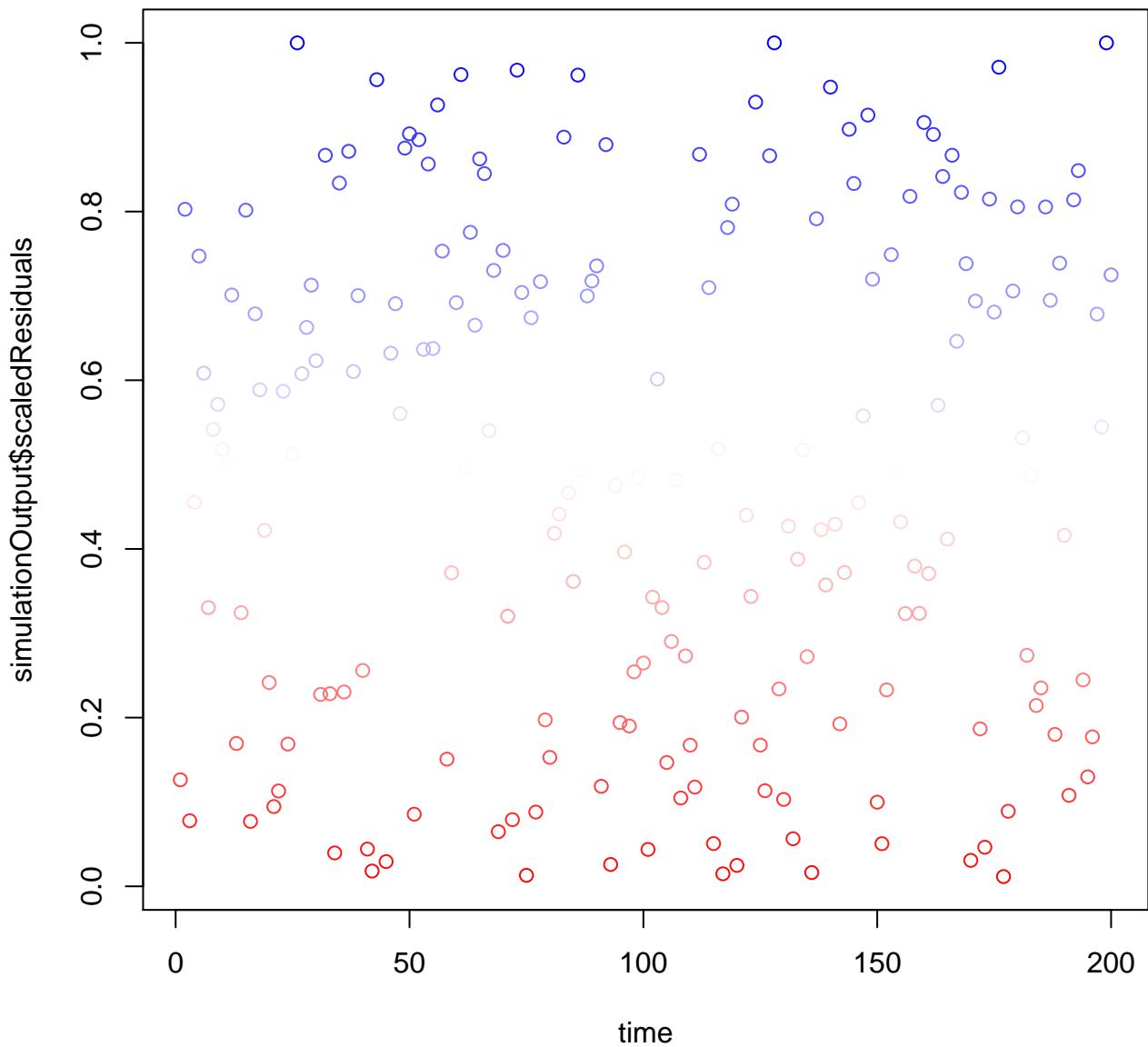
QQ plot residuals

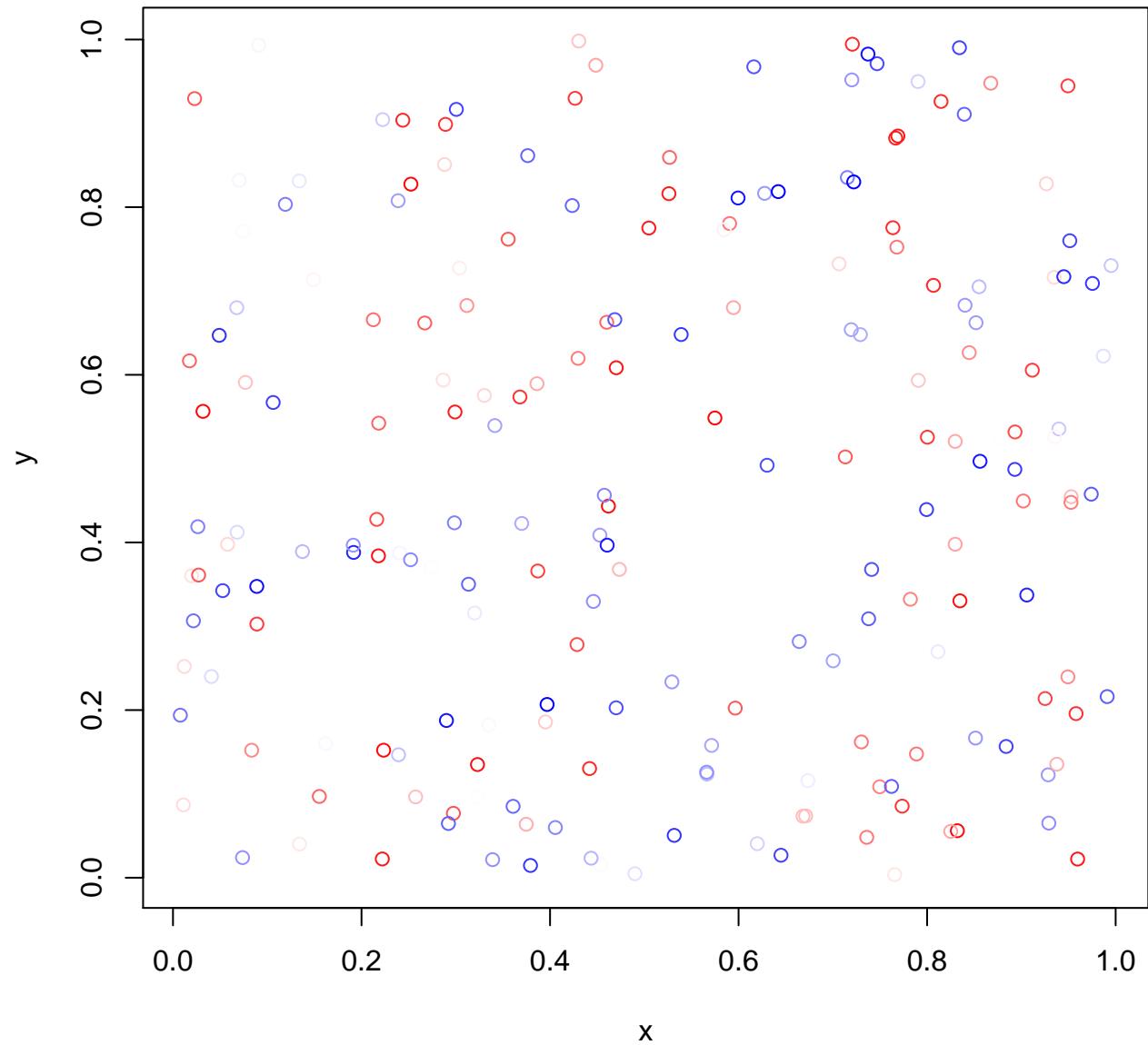


DHARMA zero-inflation test via comparison to expected zeros with simulation under H0 = fitted model

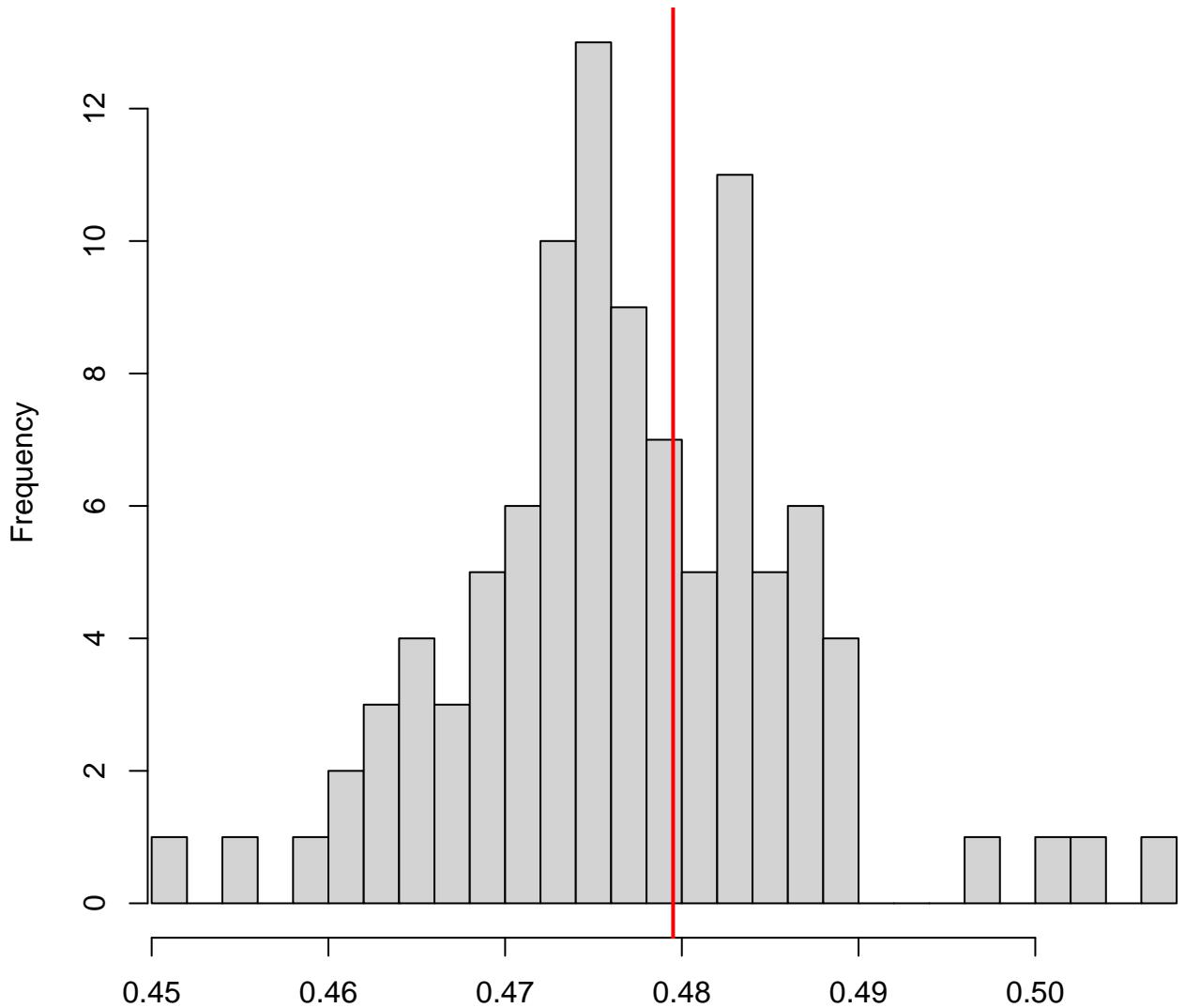


Simulated values, red line = fitted model. p-value (two.sided) = 0.98



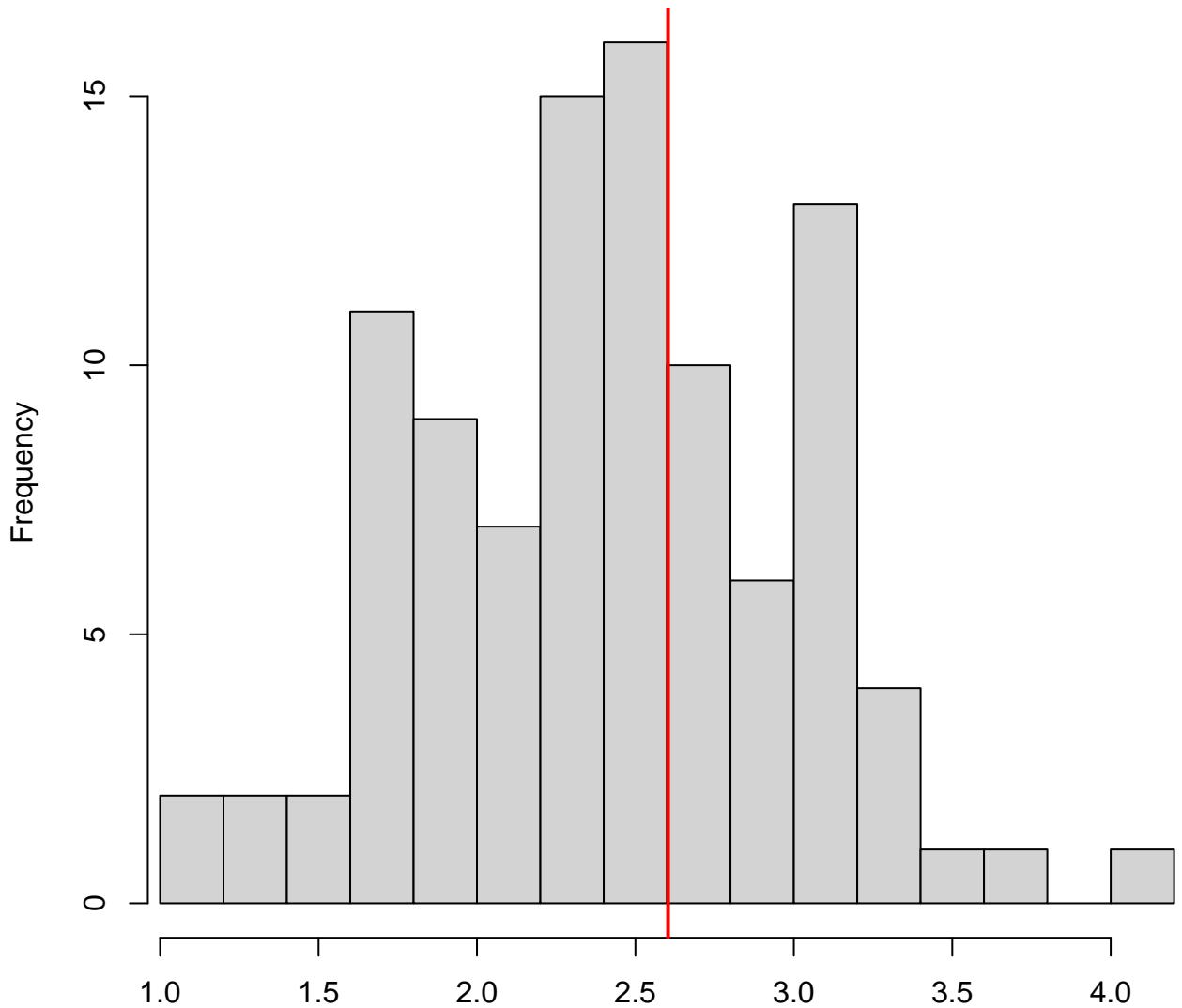


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.74

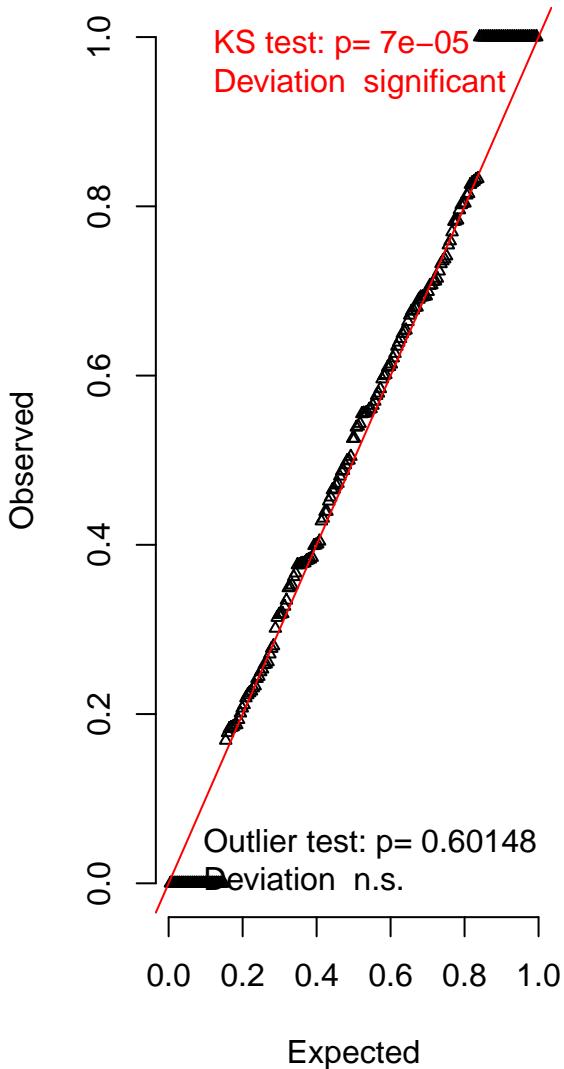
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



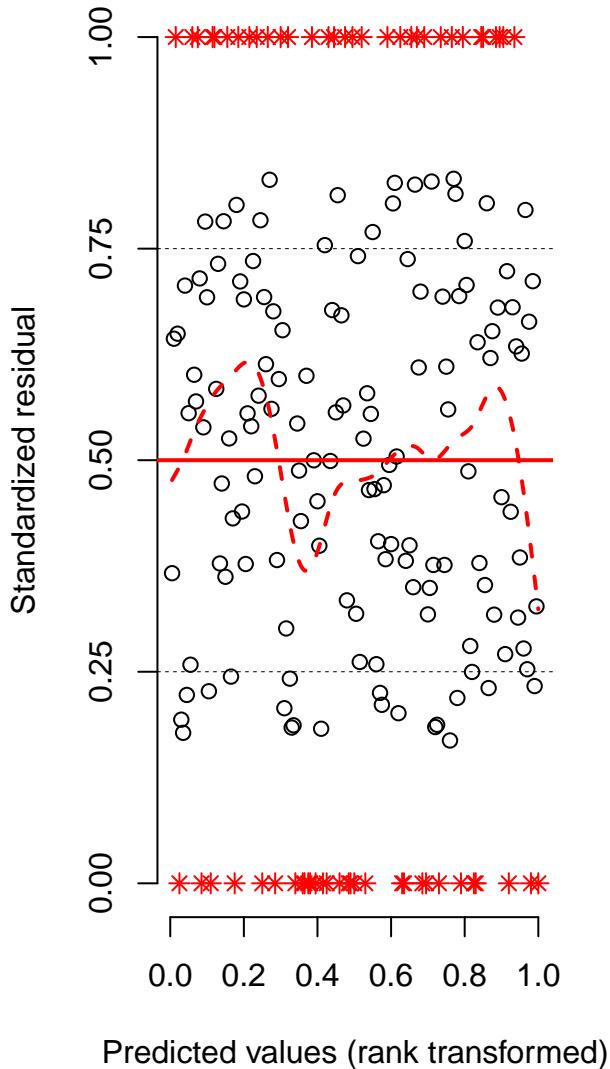
Simulated values, red line = fitted model. p-value (two.sided) = 0.72

DHARMA scaled residual plots

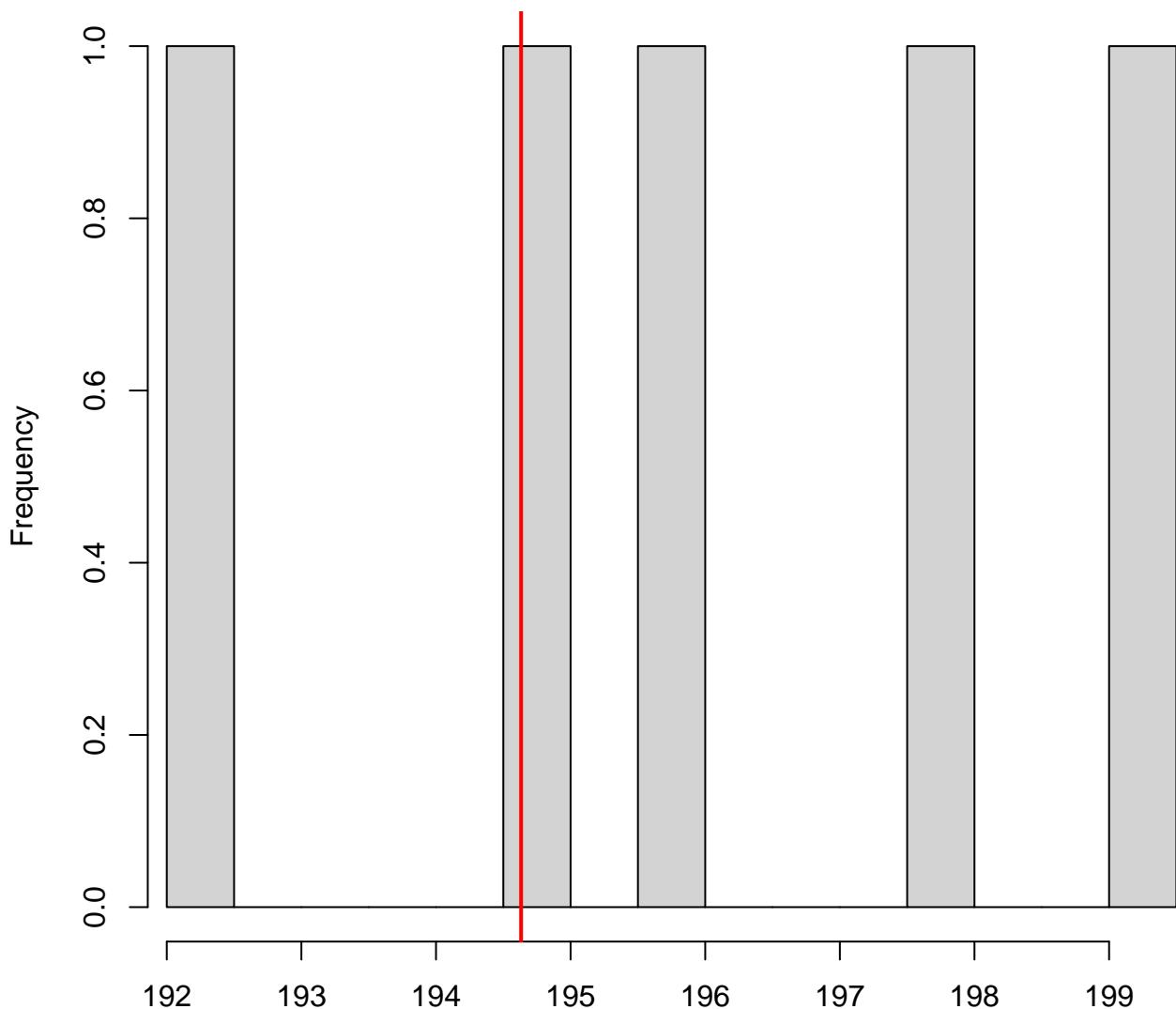
QQ plot residuals



Residual vs. predicted lines should match

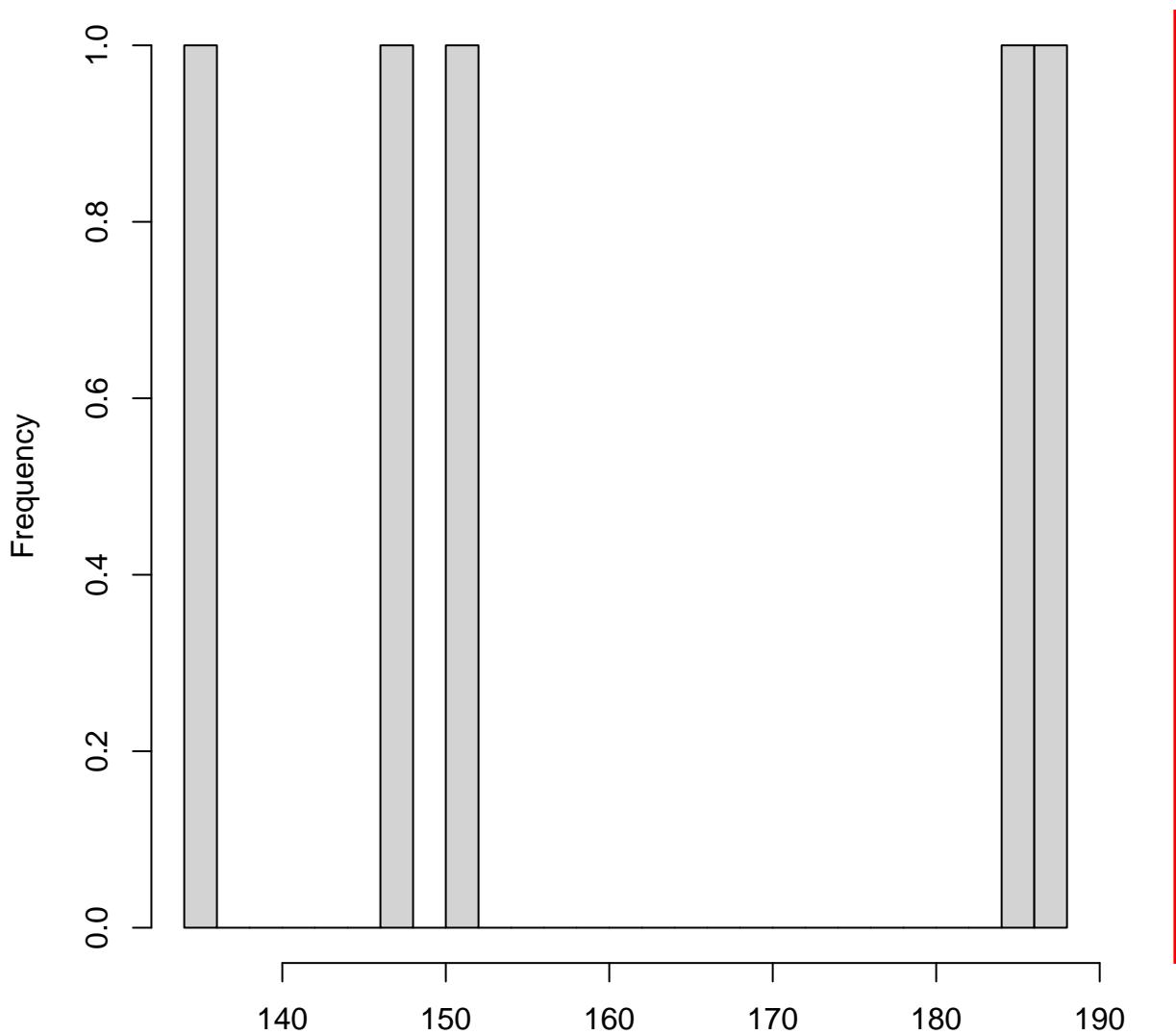


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



Simulated values, red line = fitted model. p-value (two.sided) = 0.8

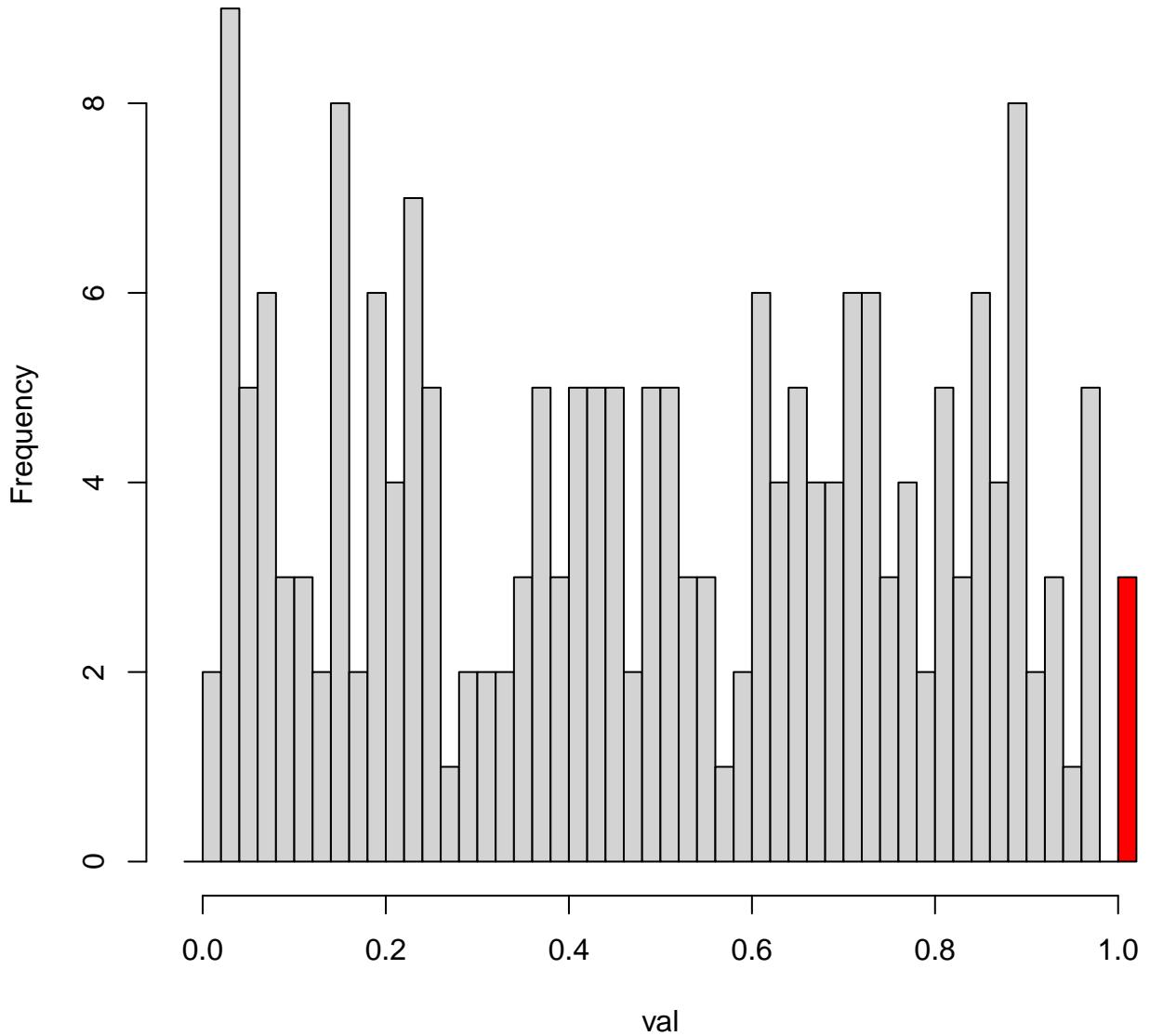
DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



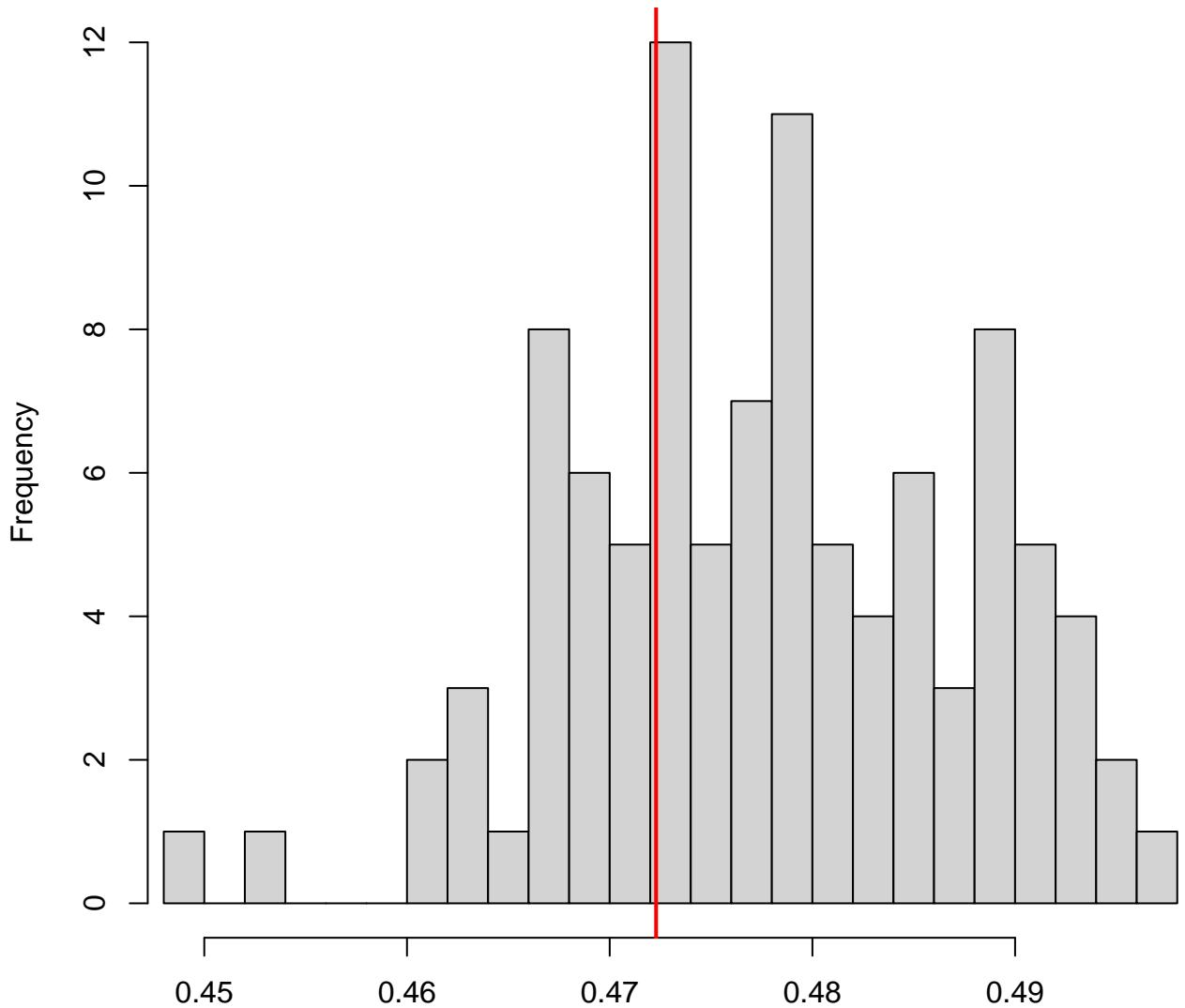
Simulated values, red line = fitted model. p-value (two.sided) = 0

Hist of DHARMA residuals

Outliers are marked red

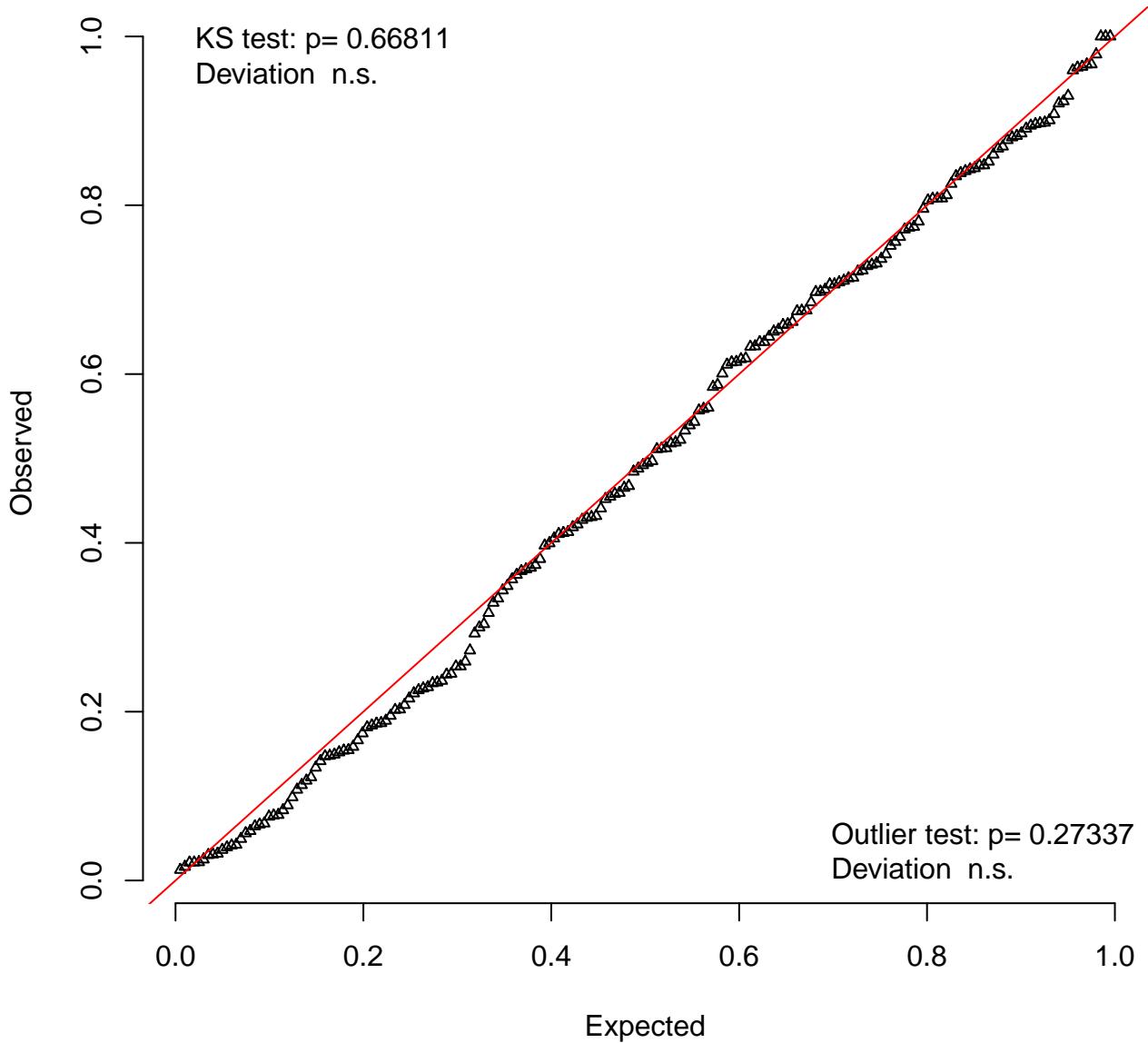


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

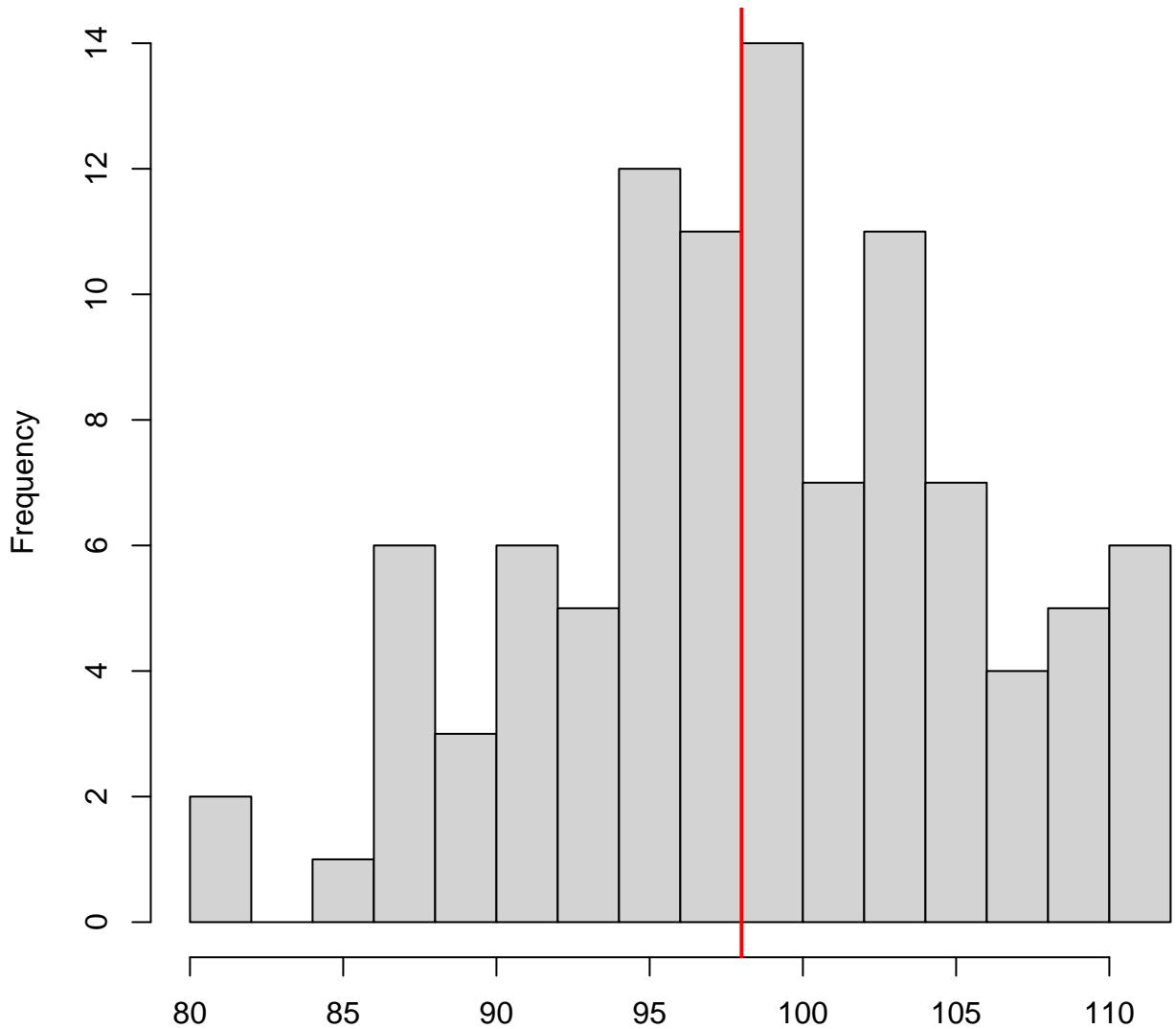


Simulated values, red line = fitted model. p-value (two.sided) = 0.62

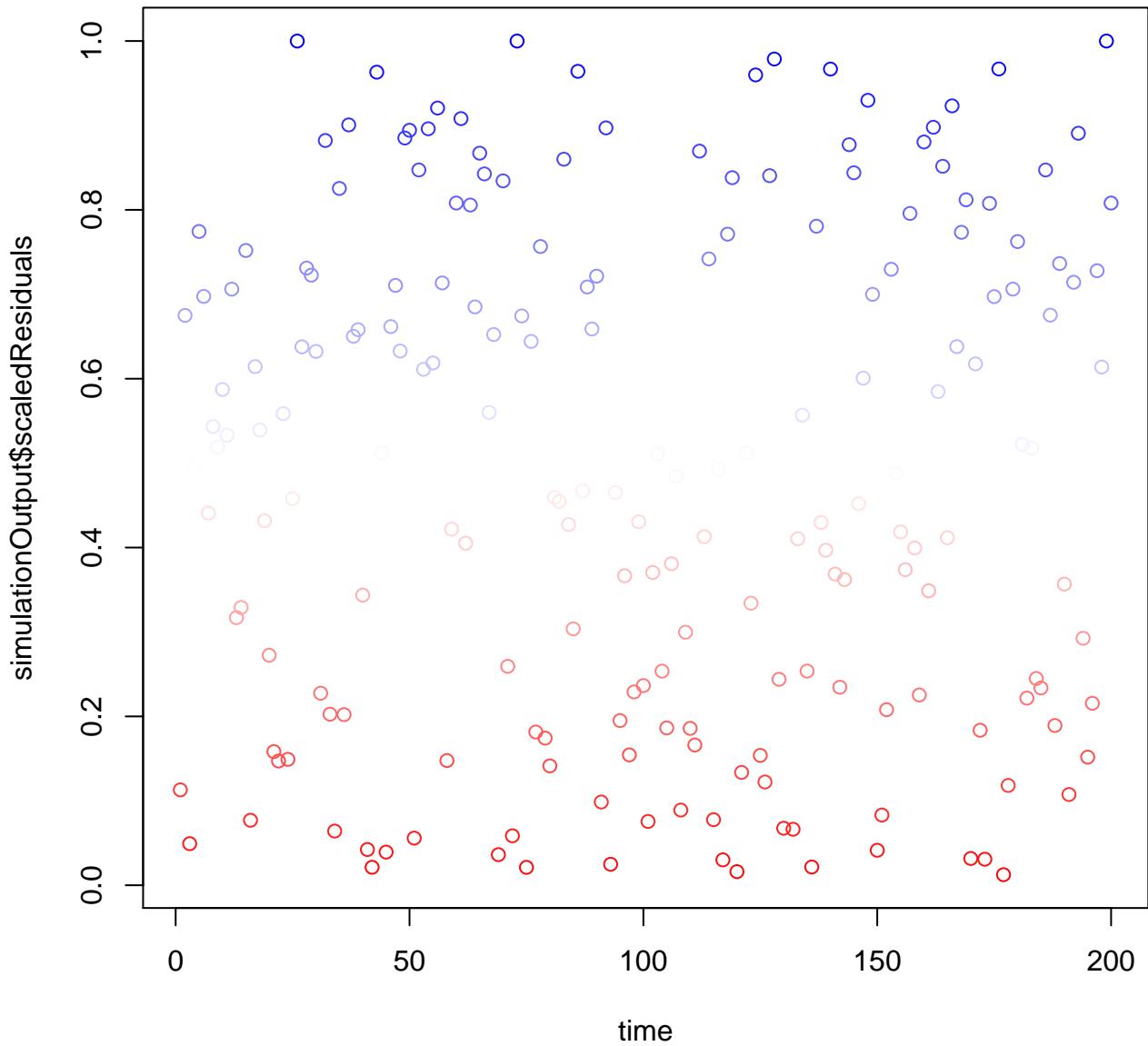
QQ plot residuals

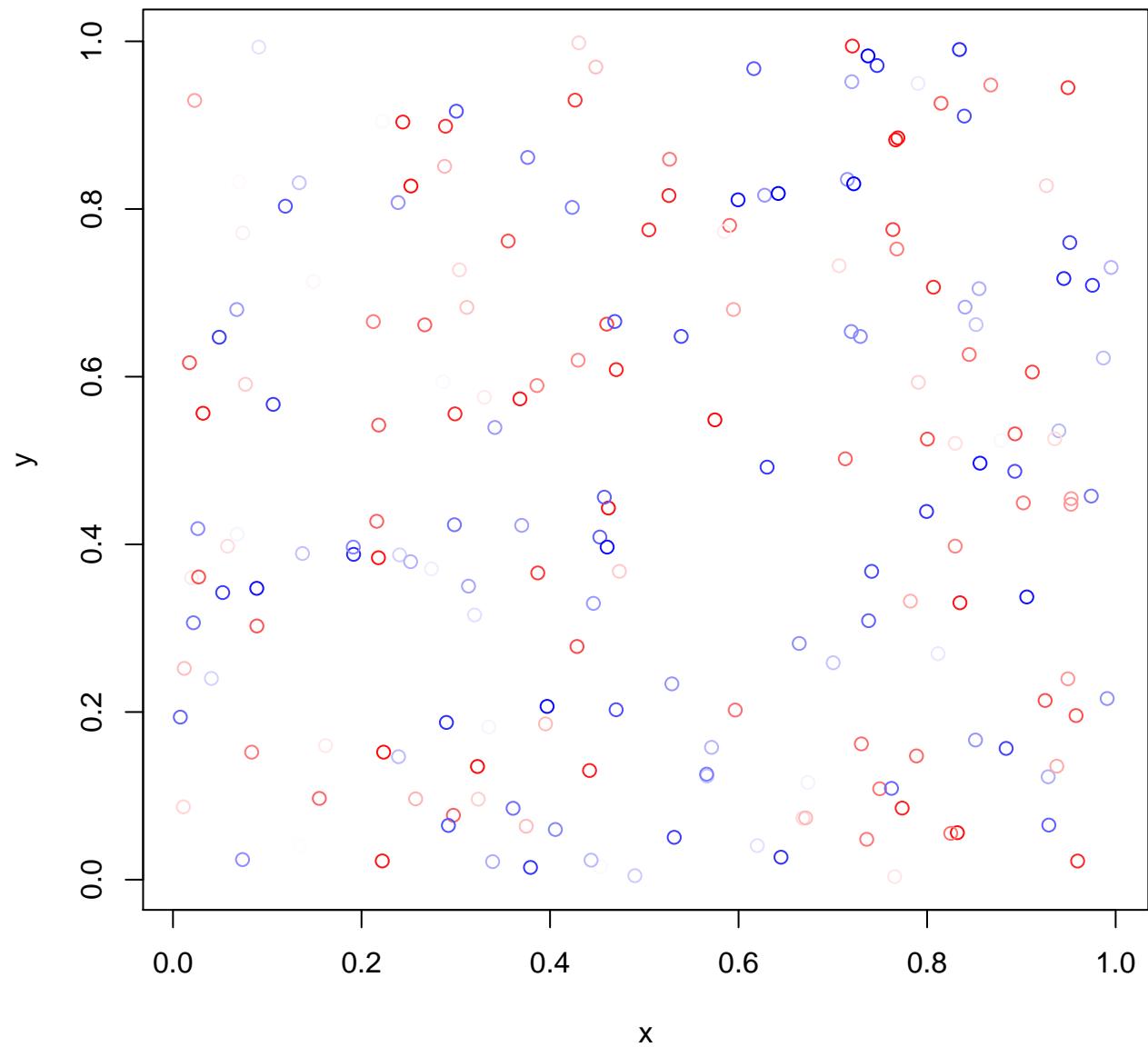


DHARMA zero-inflation test via comparison to expected zeros with simulation under H0 = fitted model

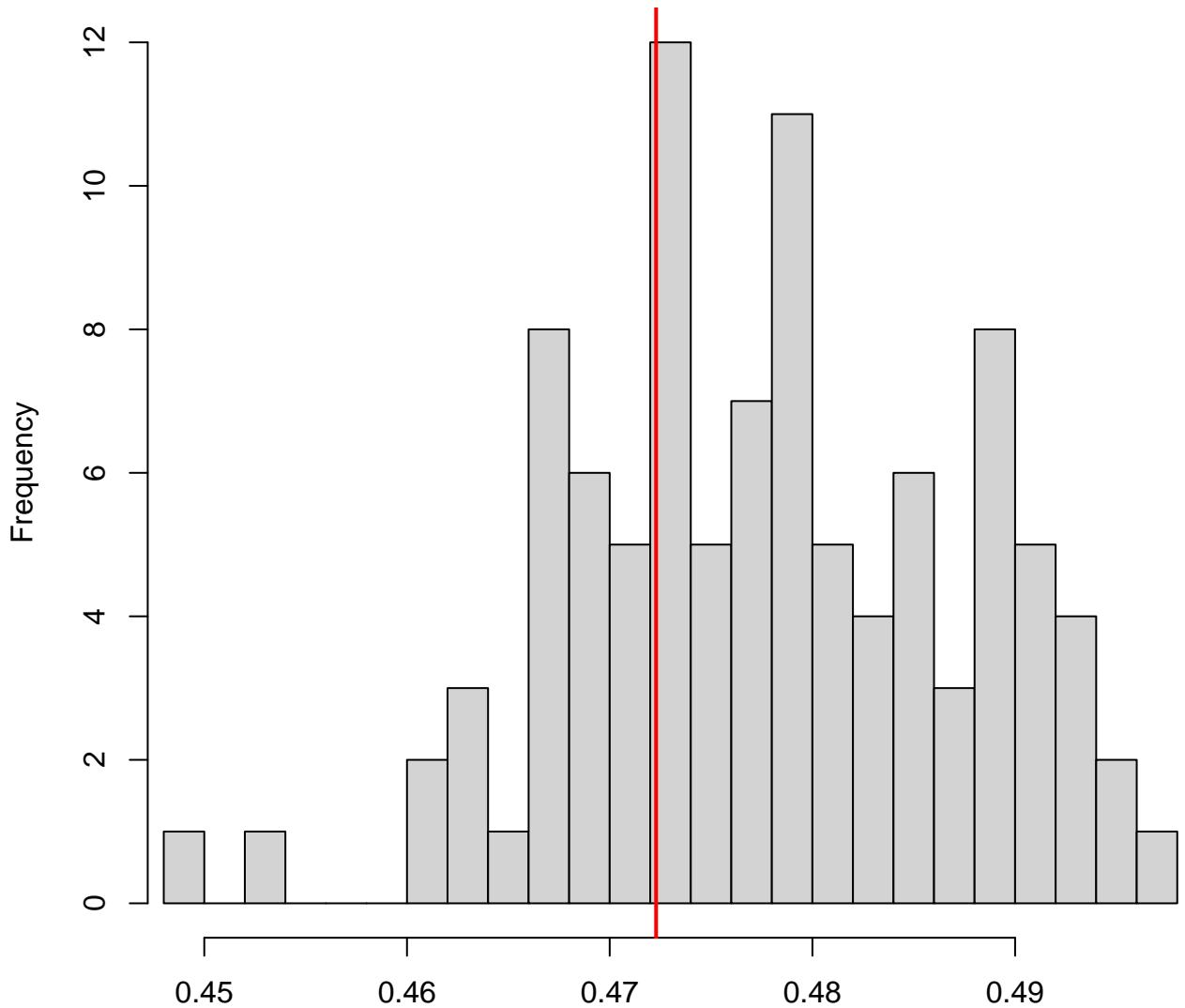


Simulated values, red line = fitted model. p-value (two.sided) = 0.92



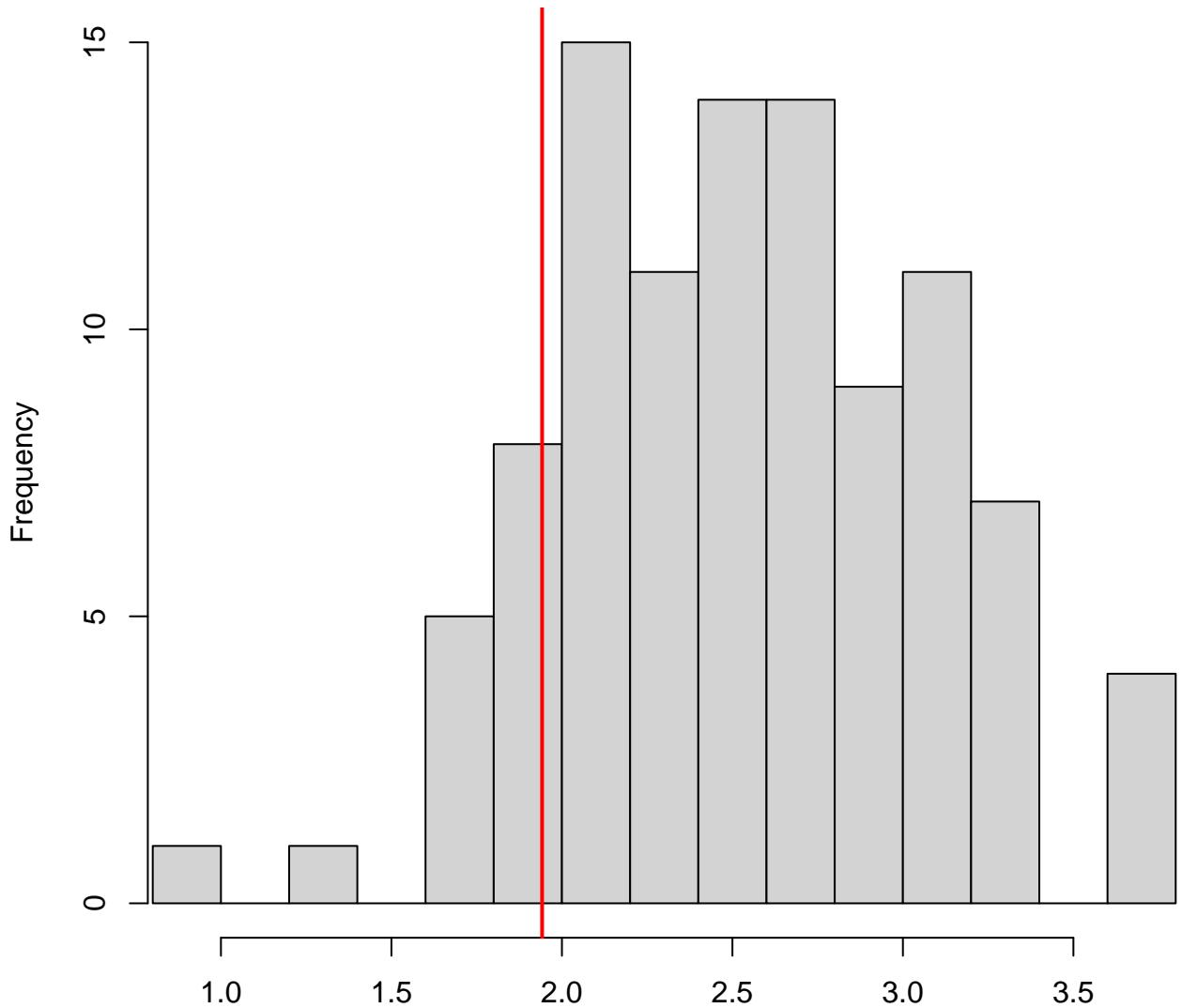


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.62

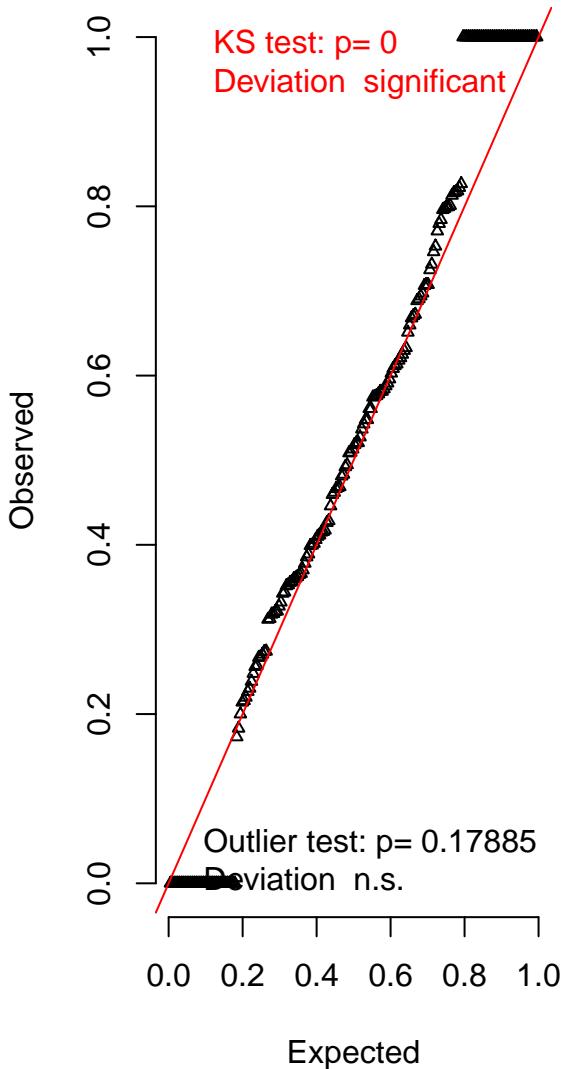
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



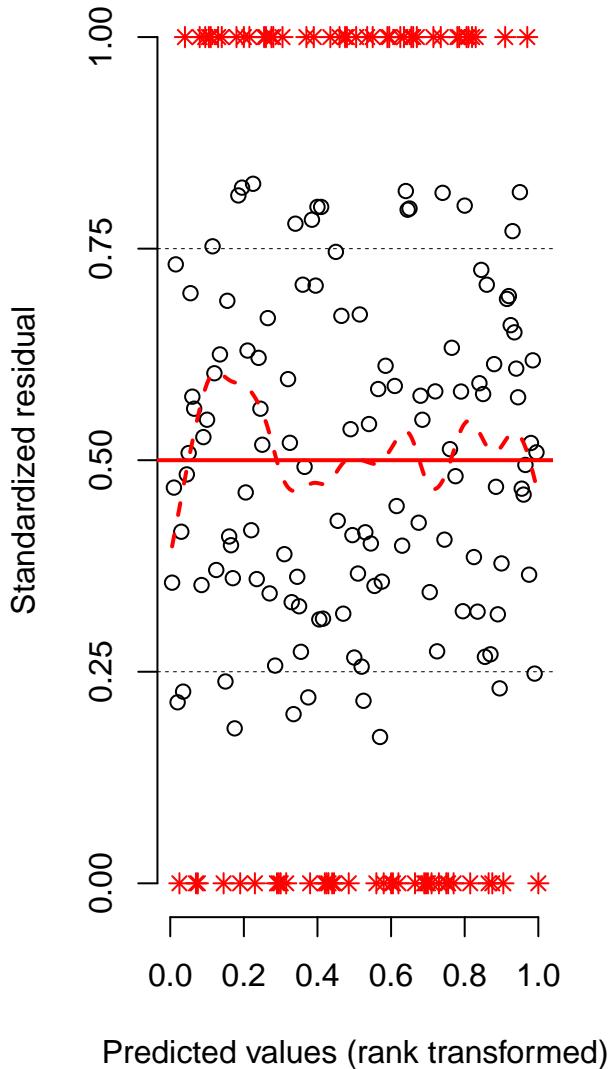
Simulated values, red line = fitted model. p-value (two.sided) = 0.2

DHARMA scaled residual plots

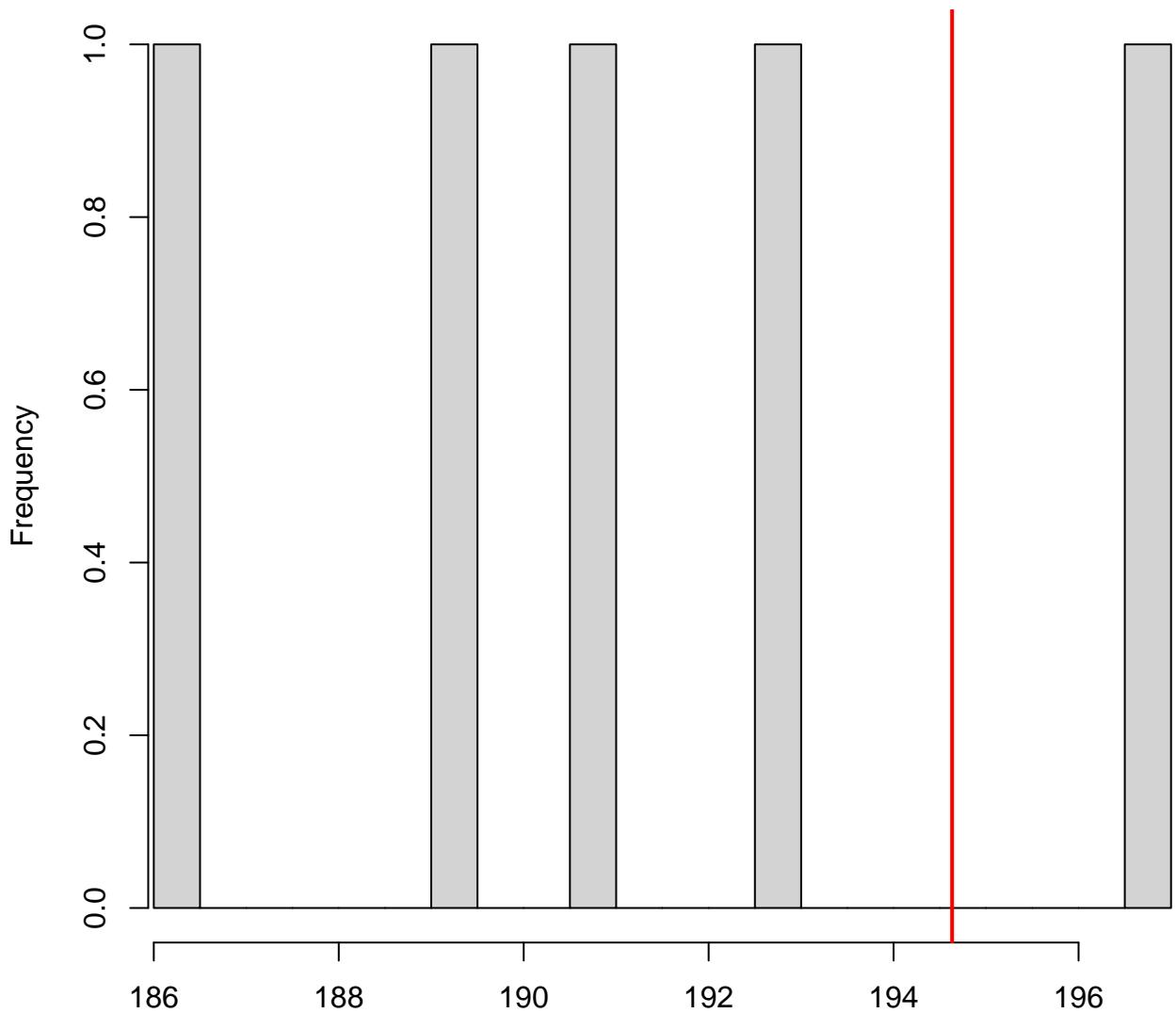
QQ plot residuals



Residual vs. predicted lines should match

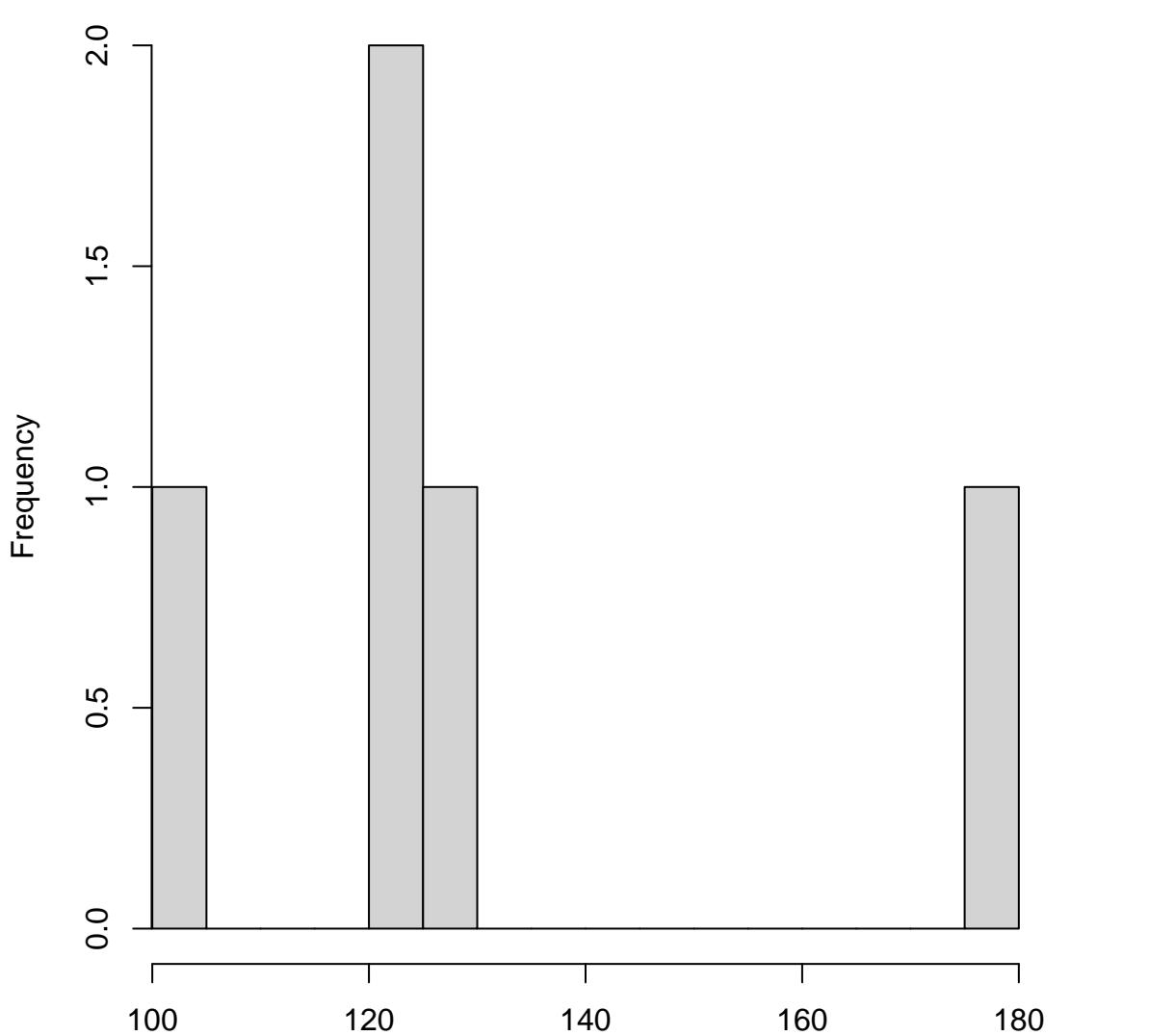


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



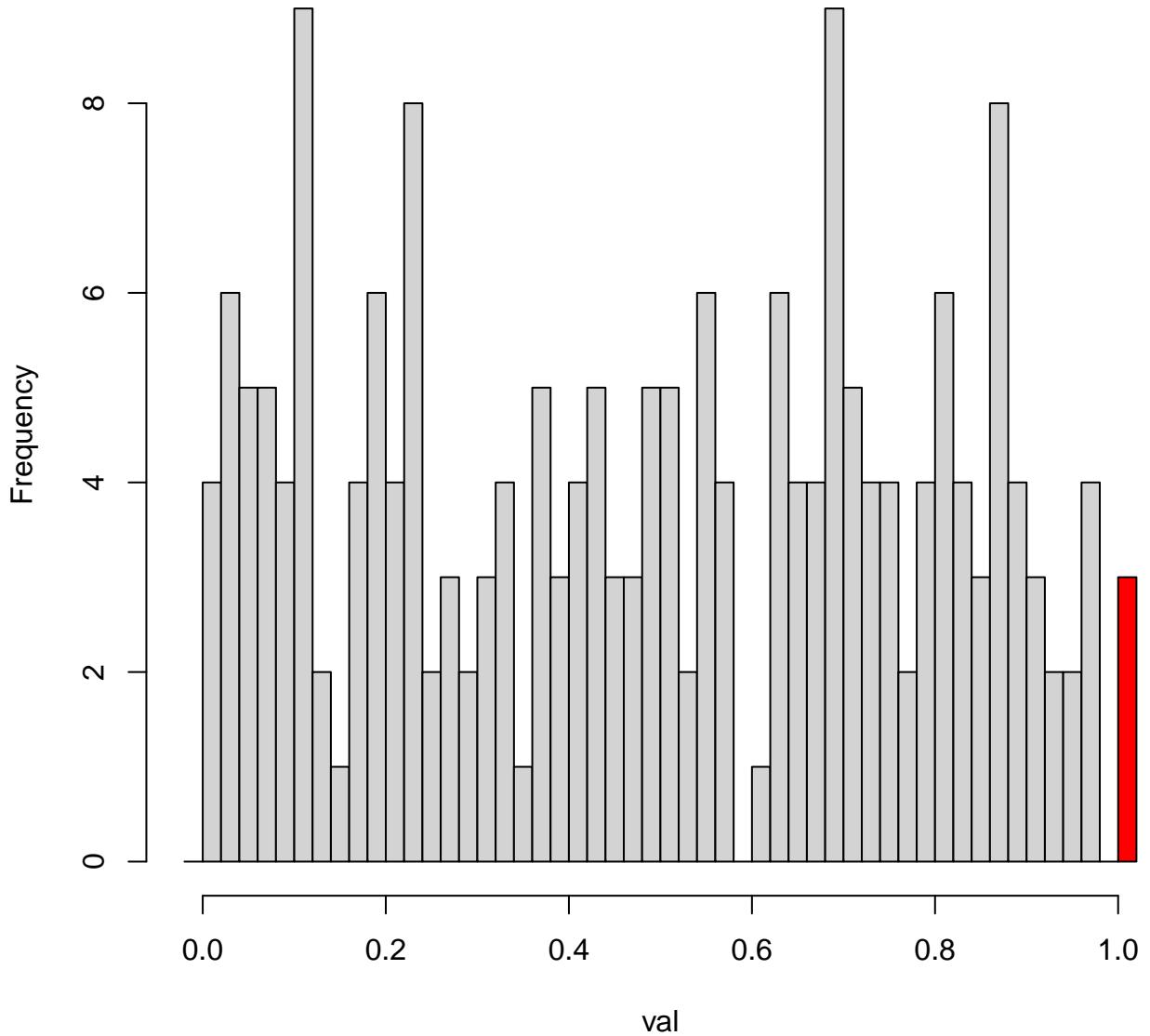
Simulated values, red line = fitted model. p-value (two.sided) = 0.4

DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted

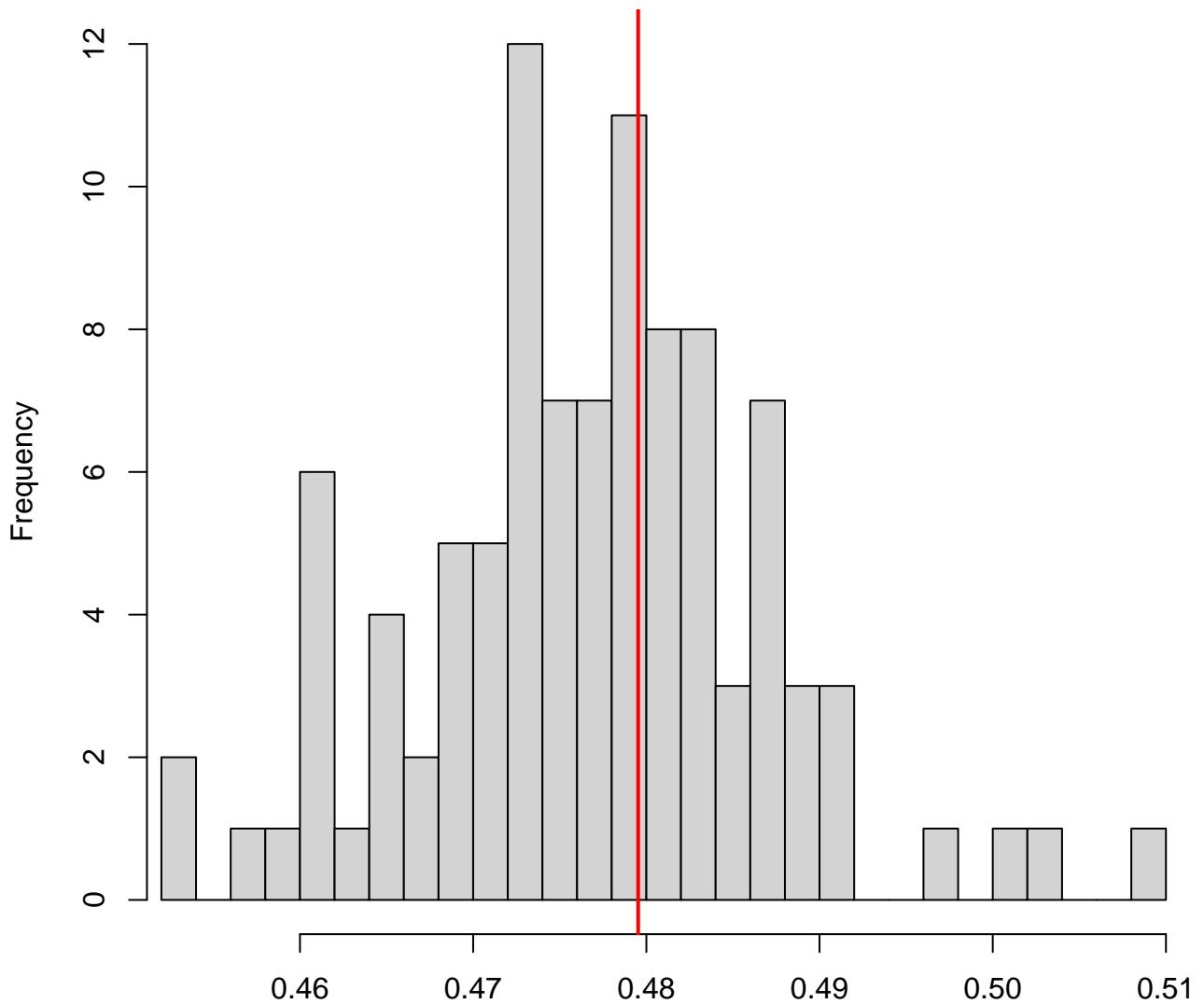


Simulated values, red line = fitted model. p-value (two.sided) = 0

Hist of DHARMa residuals
Outliers are marked red

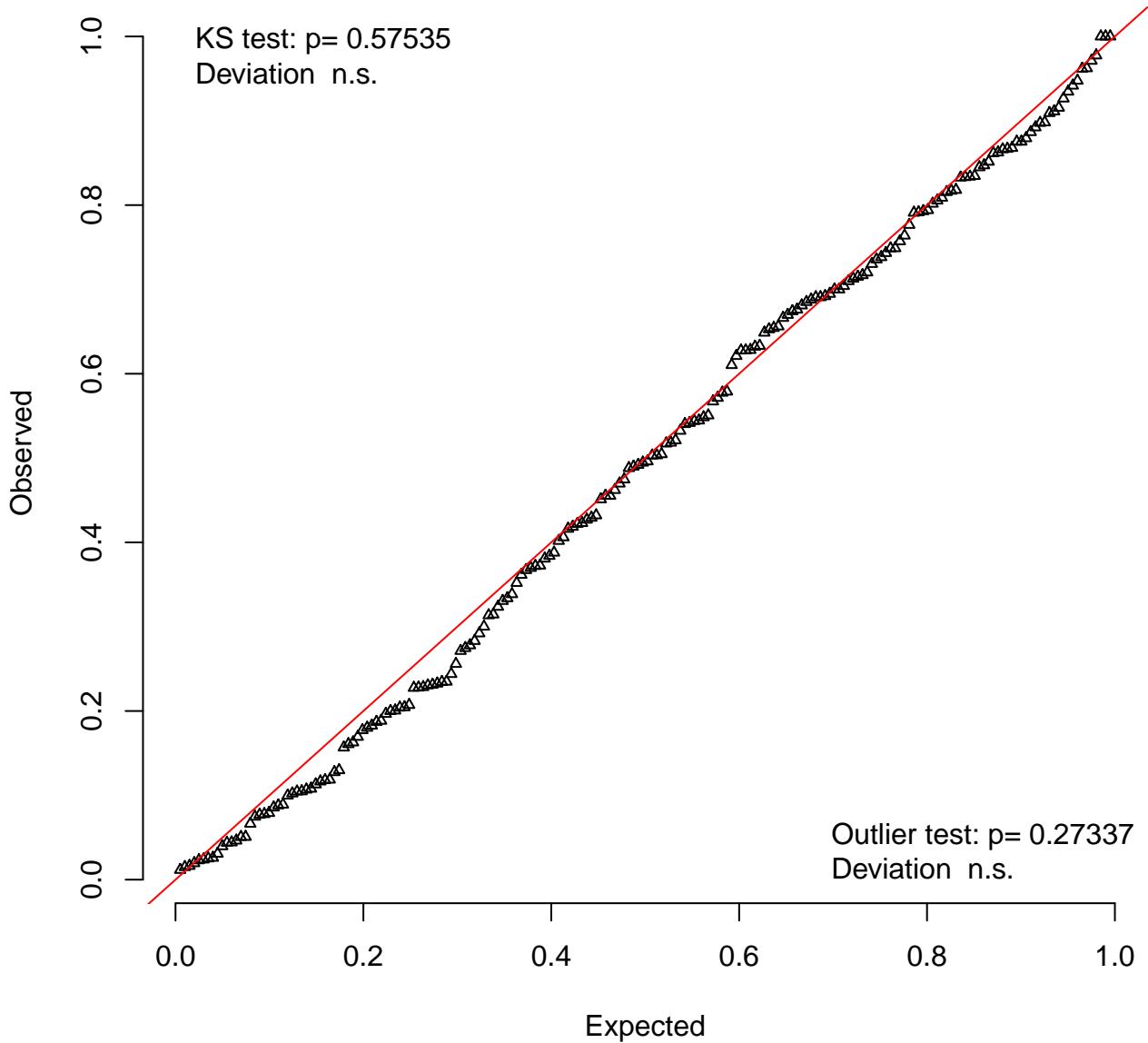


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

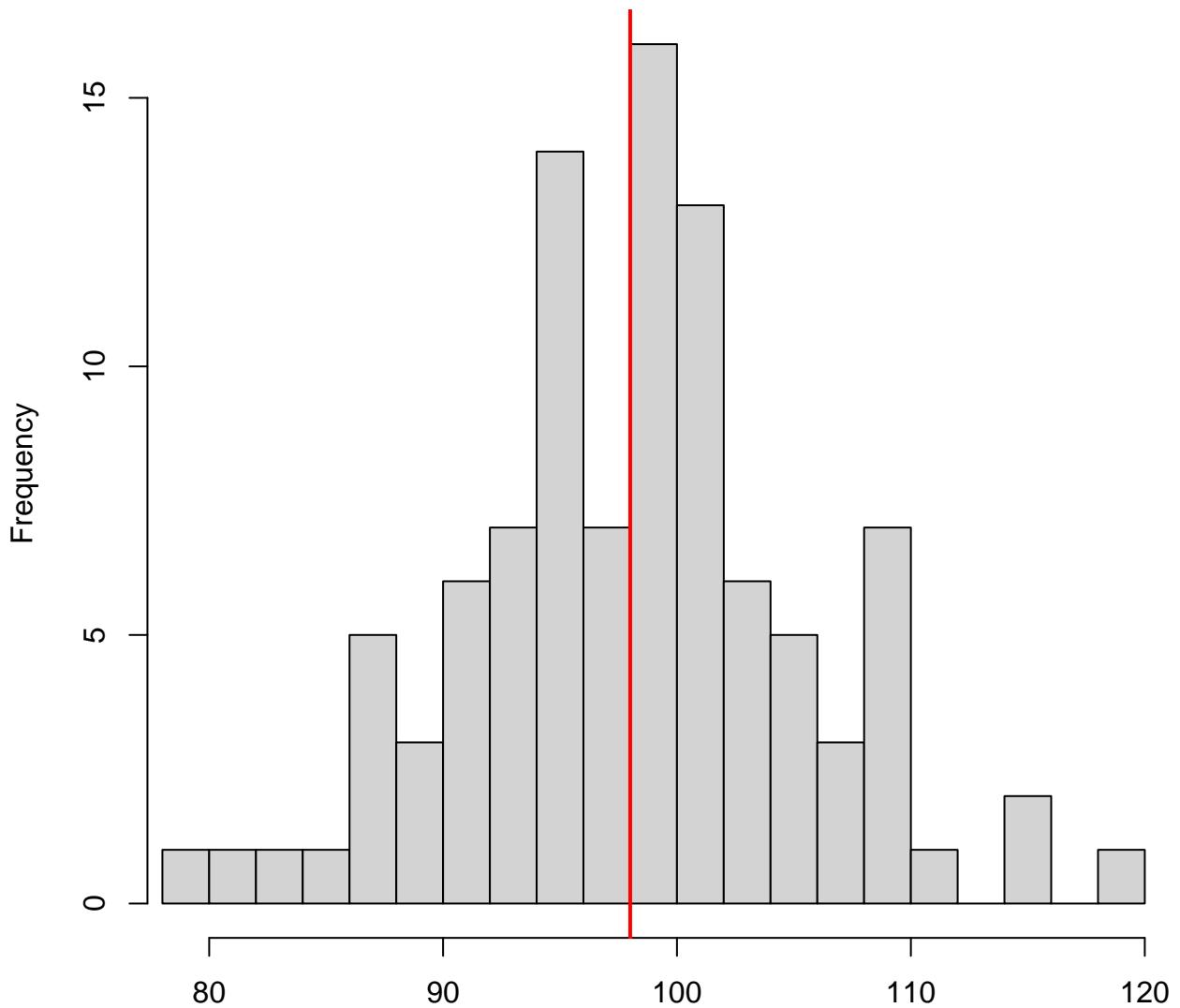


Simulated values, red line = fitted model. p-value (two.sided) = 0.8

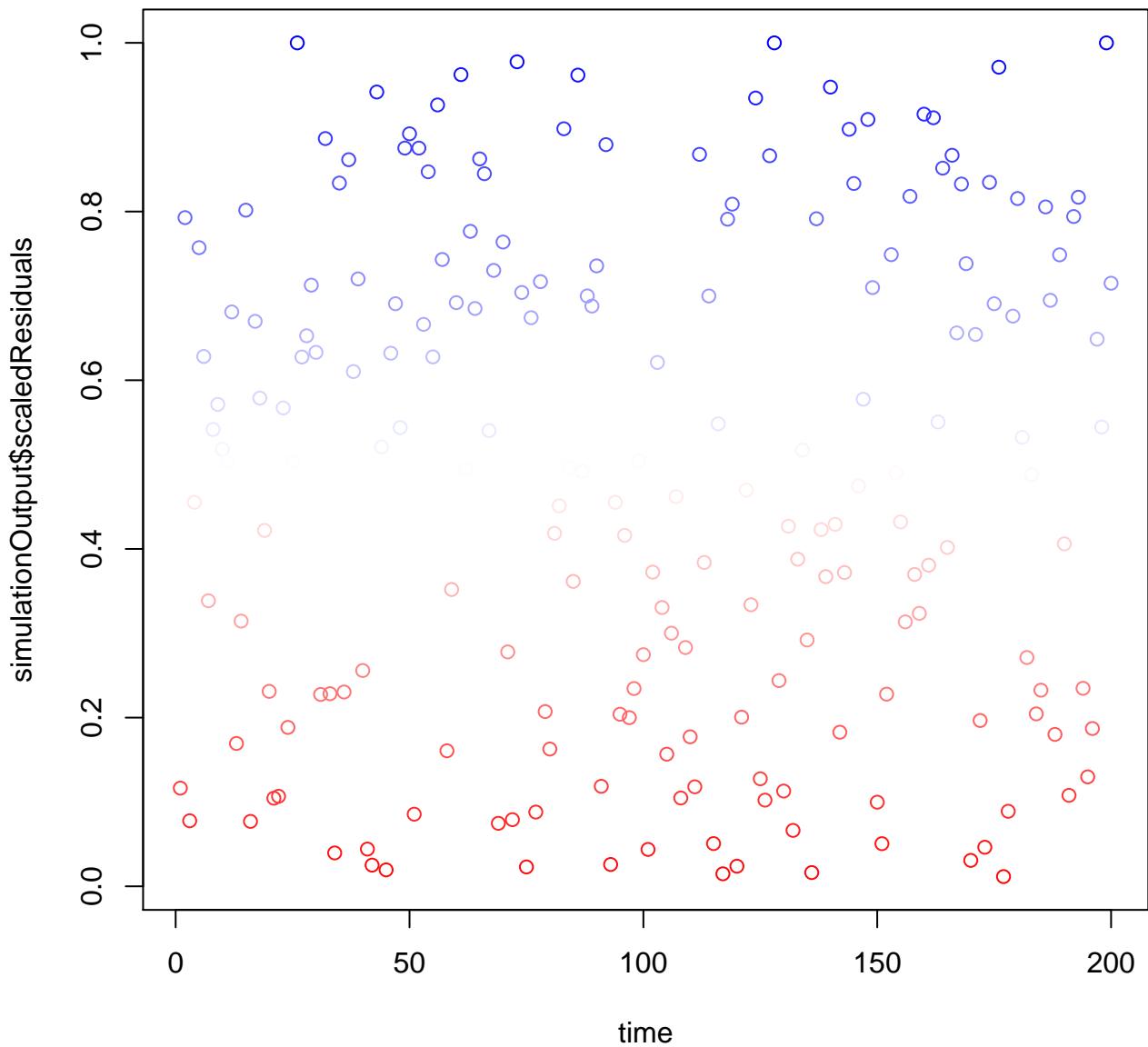
QQ plot residuals

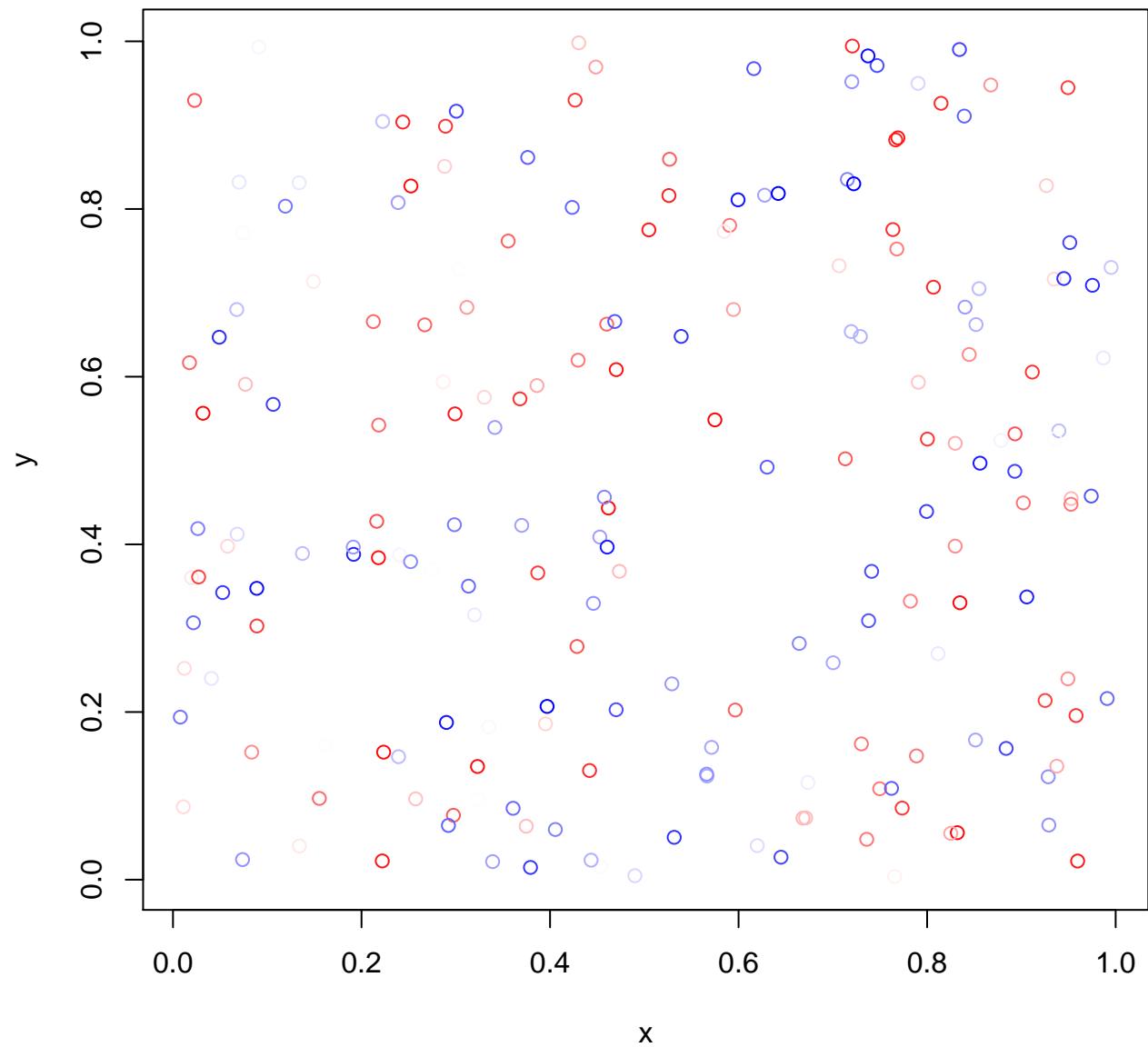


DHARMA zero-inflation test via comparison to expected zeros with simulation under H0 = fitted model

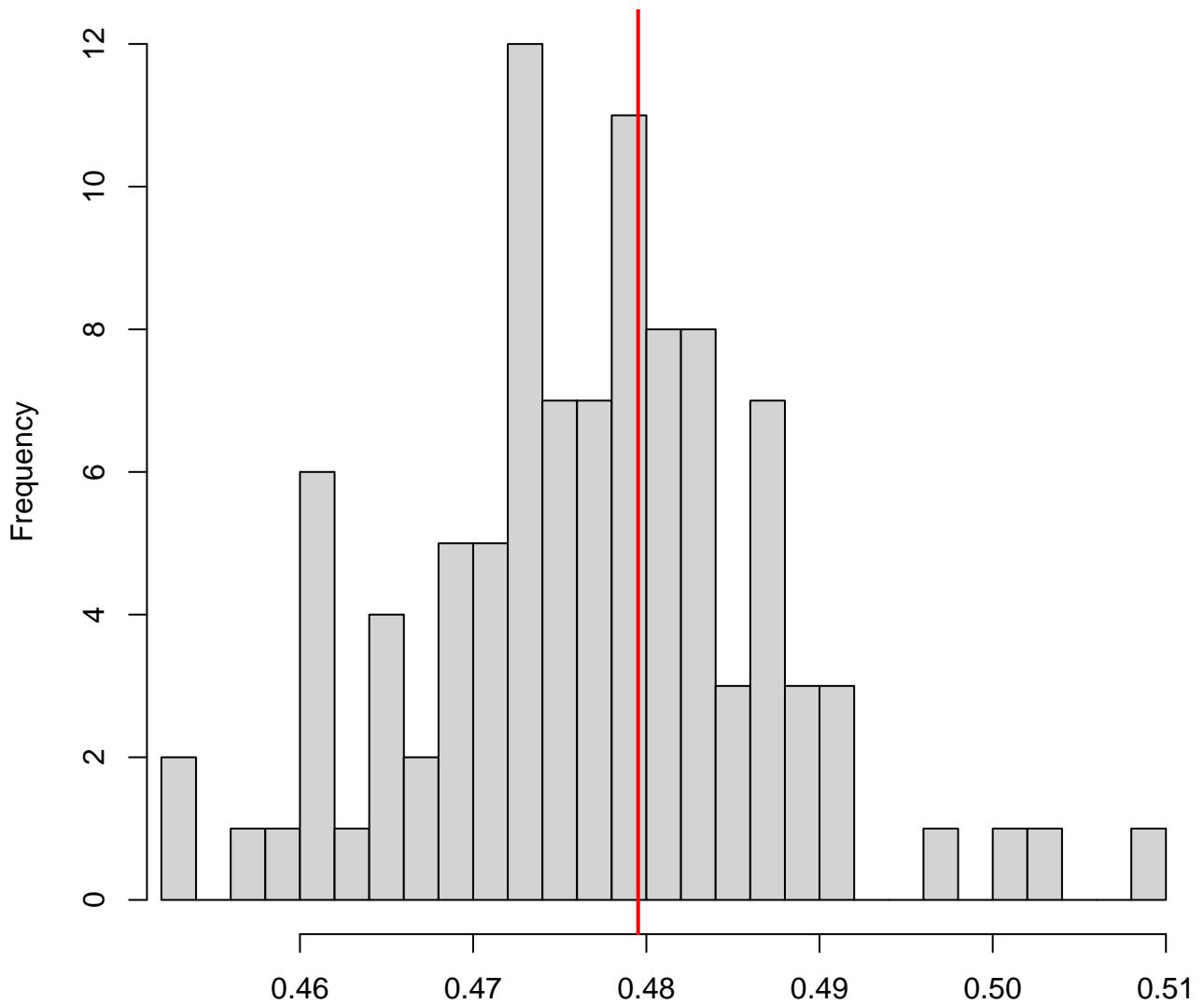


Simulated values, red line = fitted model. p-value (two.sided) = 0.92



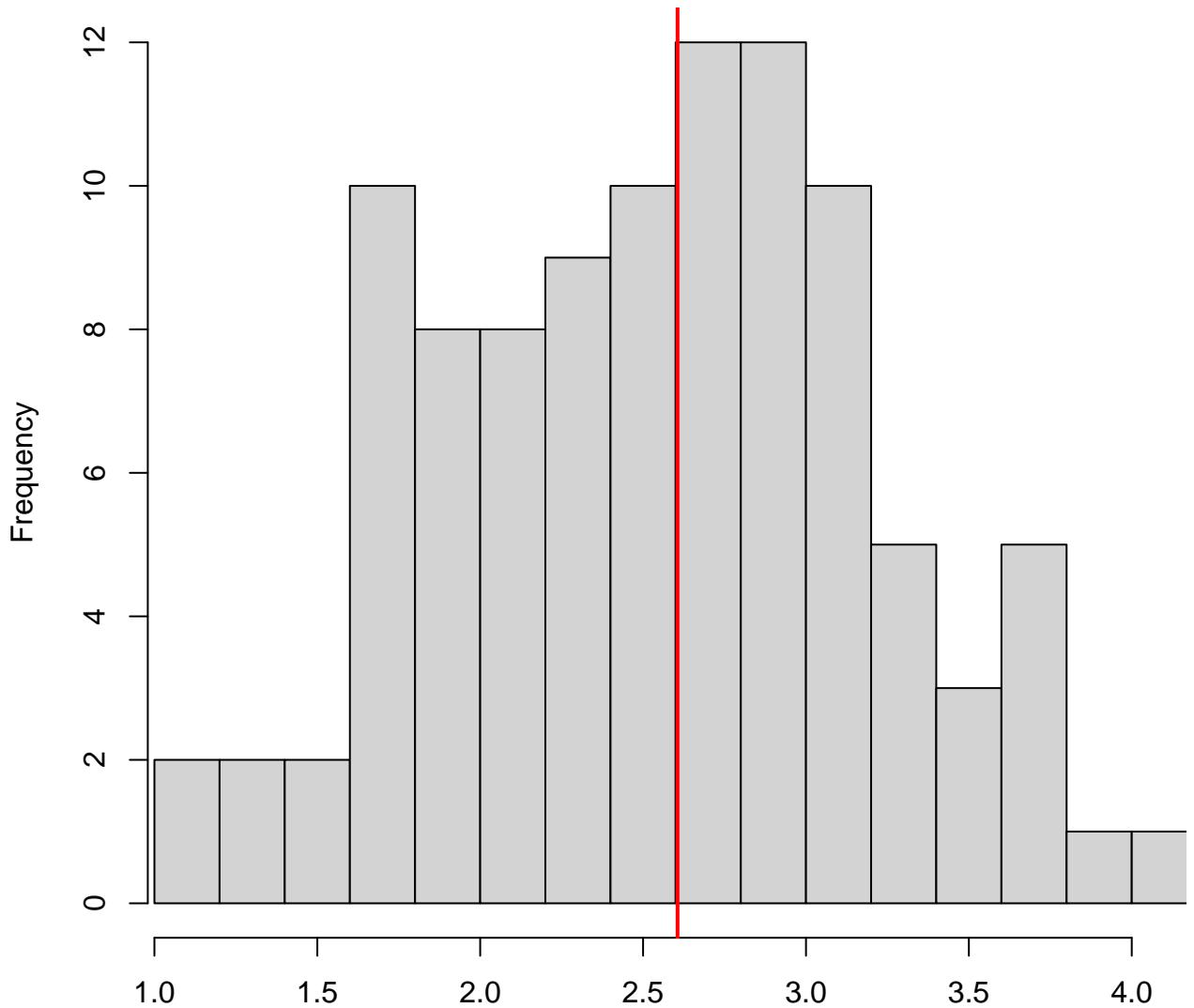


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.8

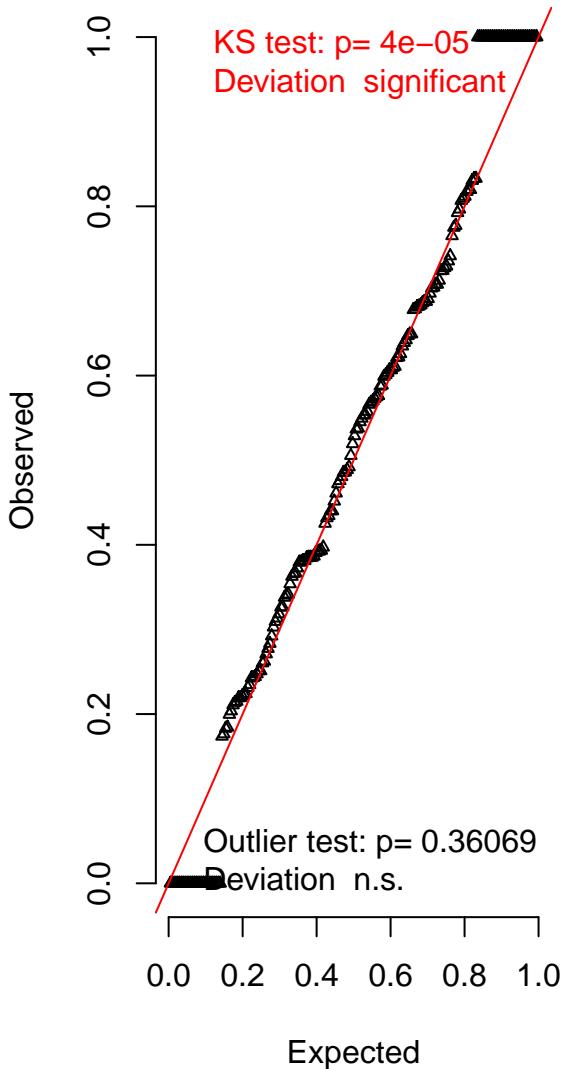
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



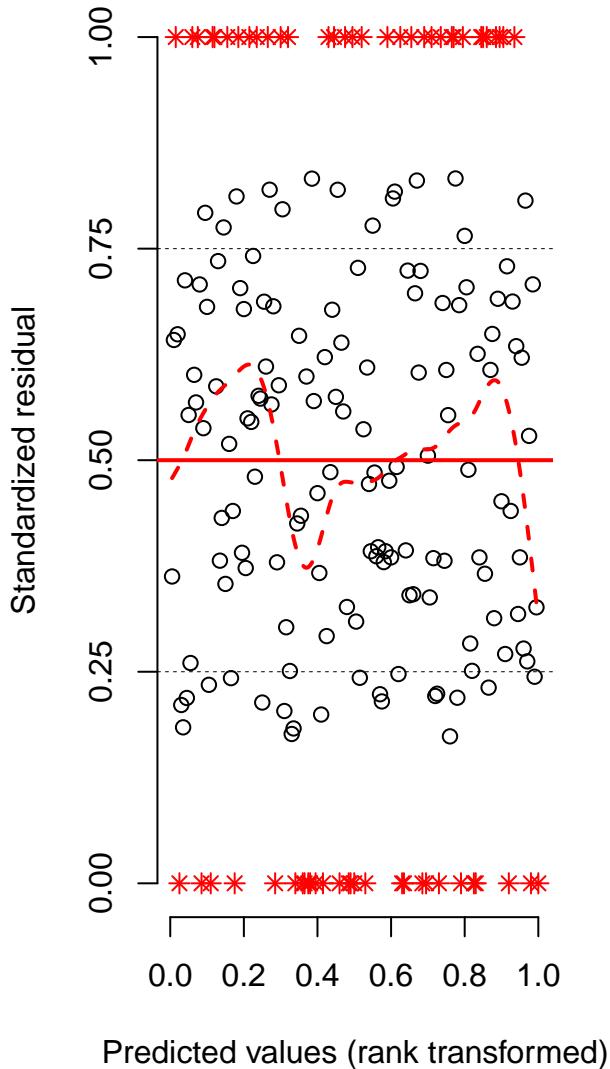
Simulated values, red line = fitted model. p-value (two.sided) = 0.96

DHARMA scaled residual plots

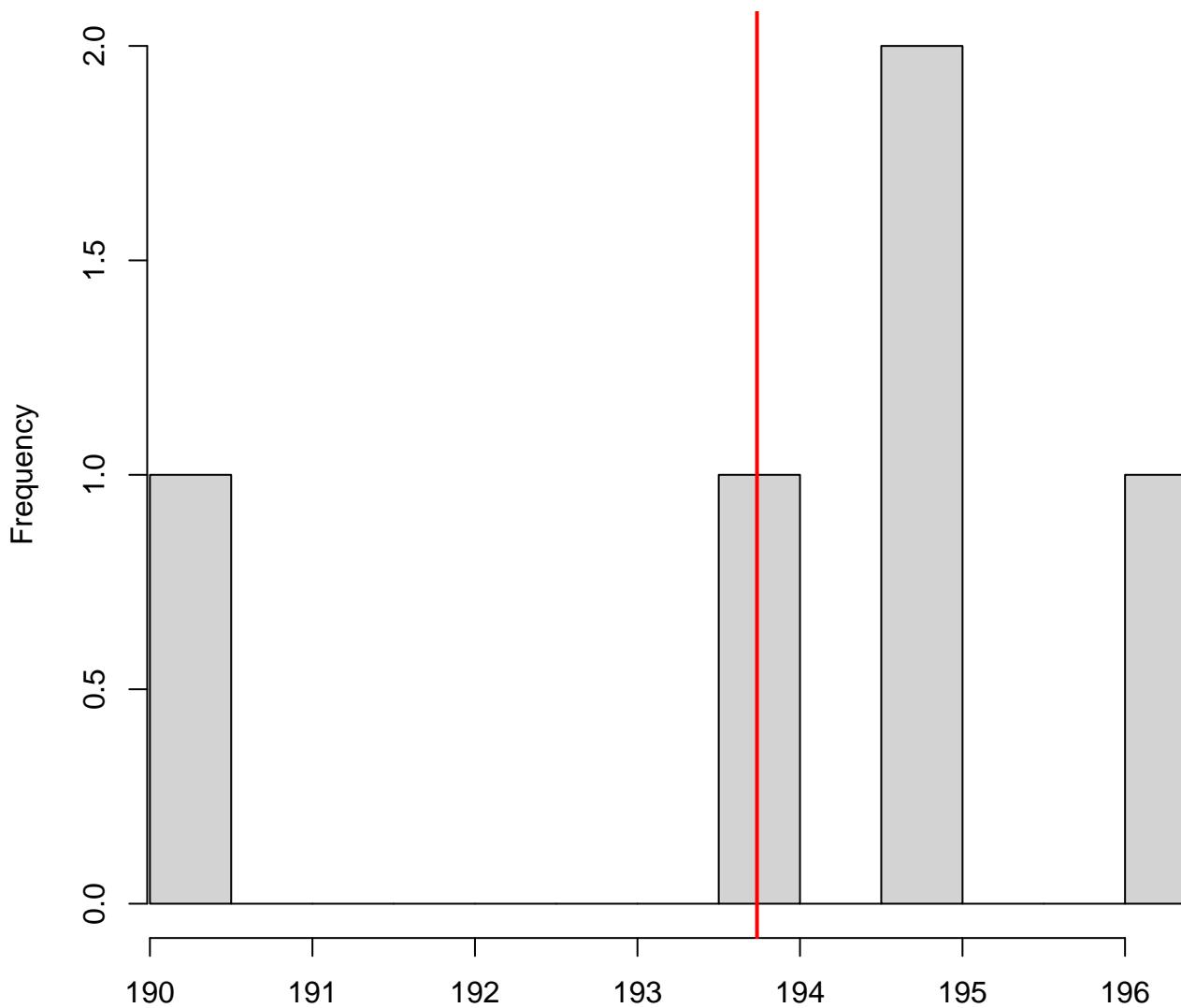
QQ plot residuals



Residual vs. predicted lines should match

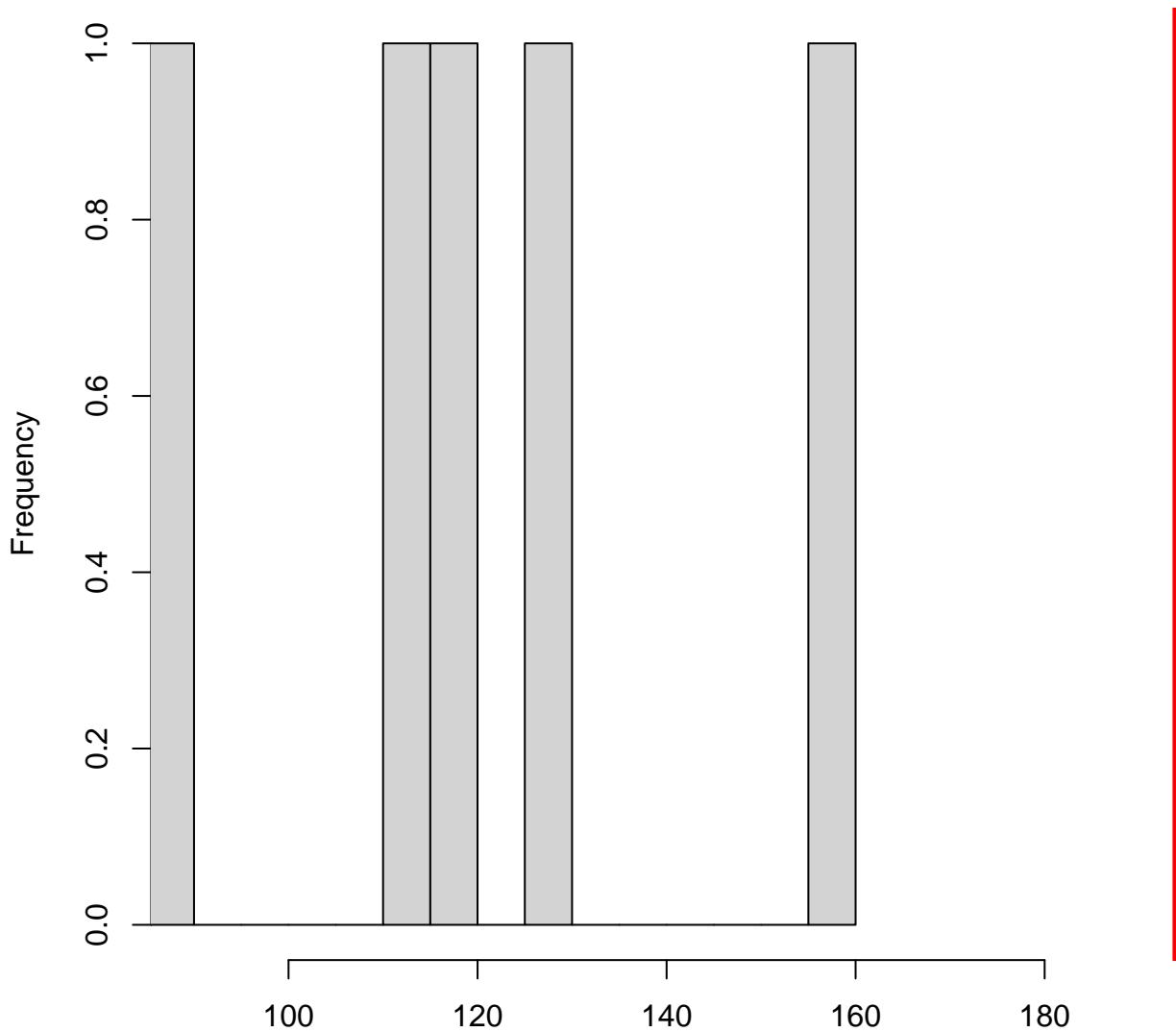


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



Simulated values, red line = fitted model. p-value (two.sided) = 0.8

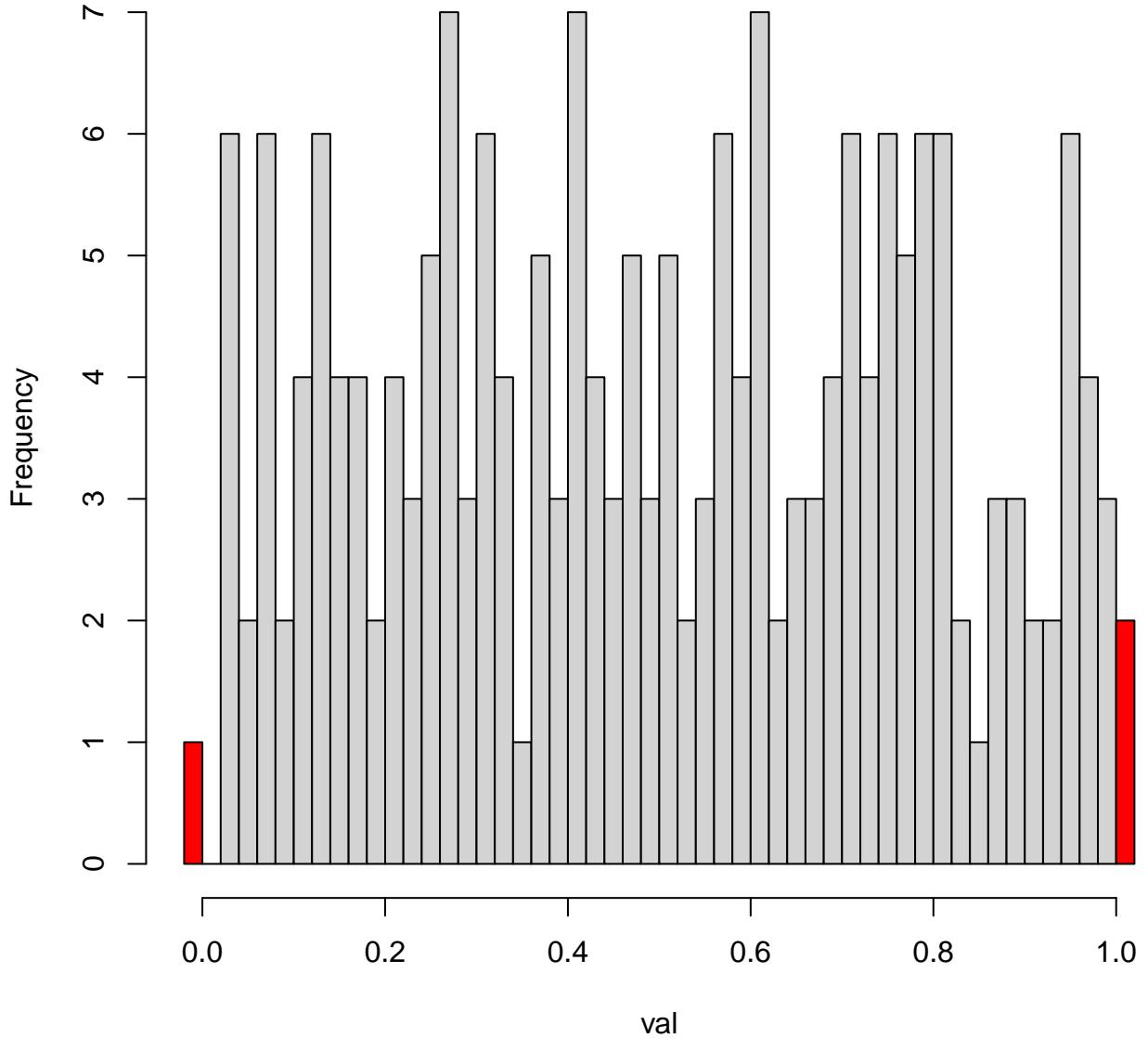
DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



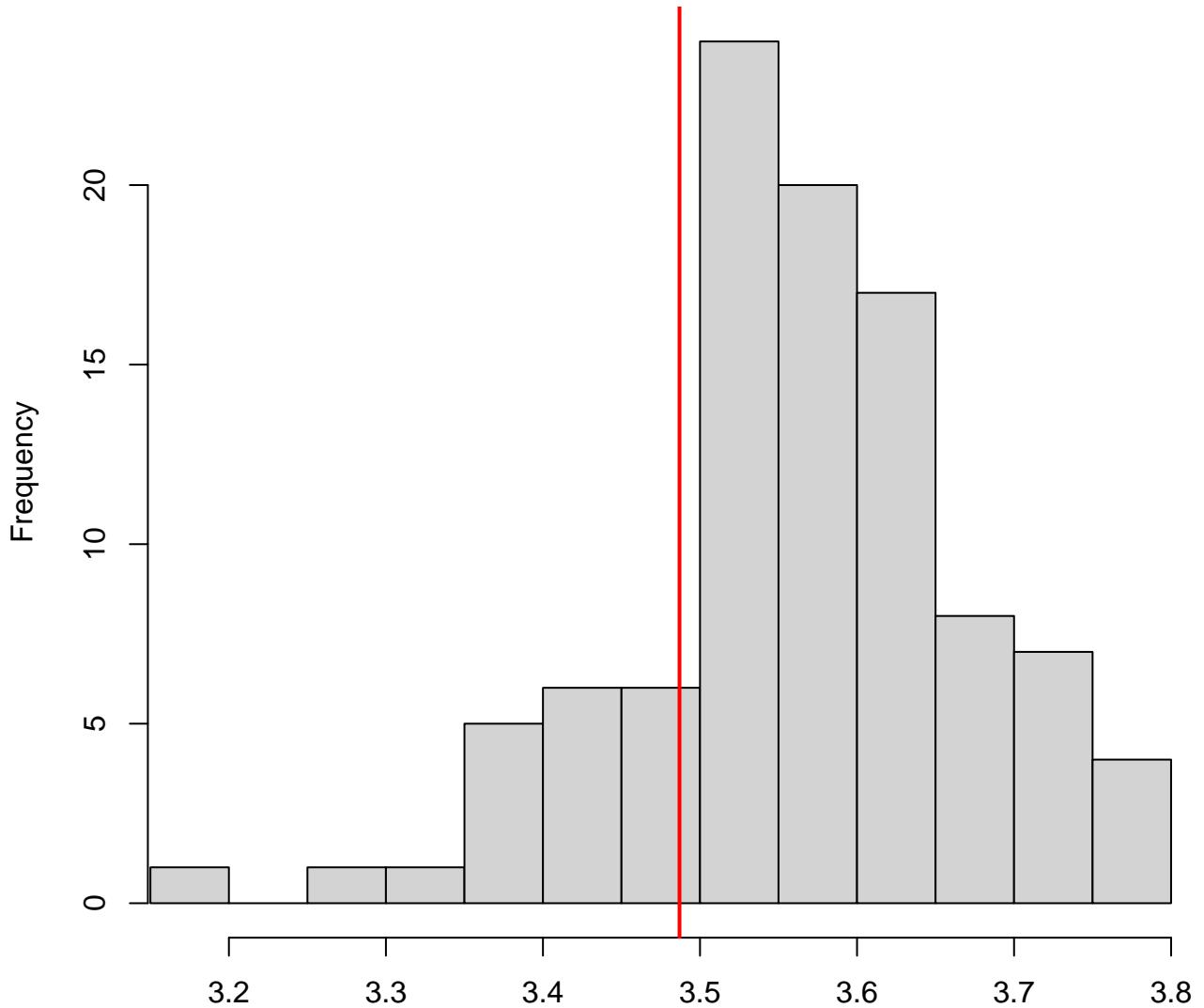
Simulated values, red line = fitted model. p-value (two.sided) = 0

Hist of DHARMA residuals

Outliers are marked red

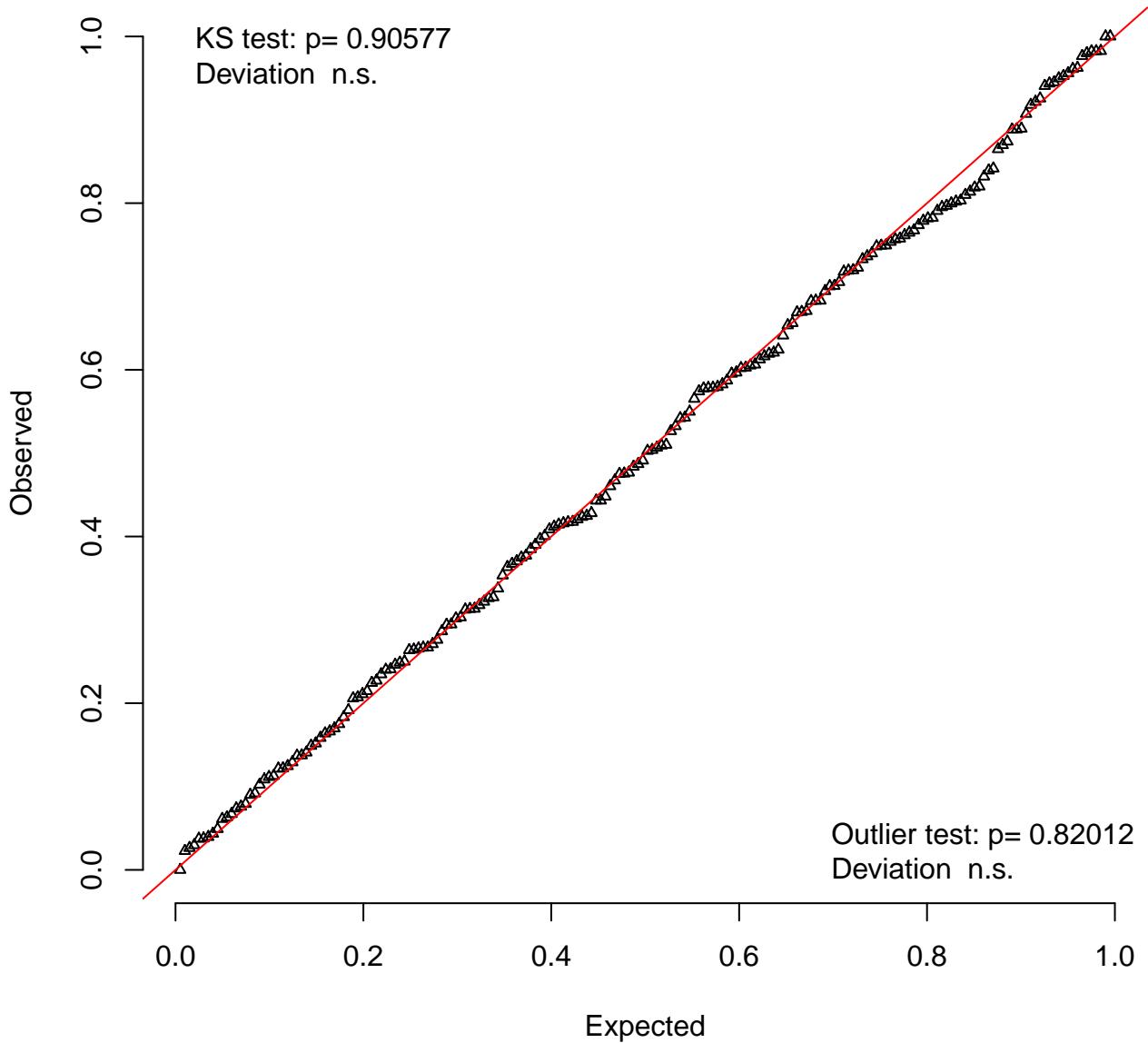


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

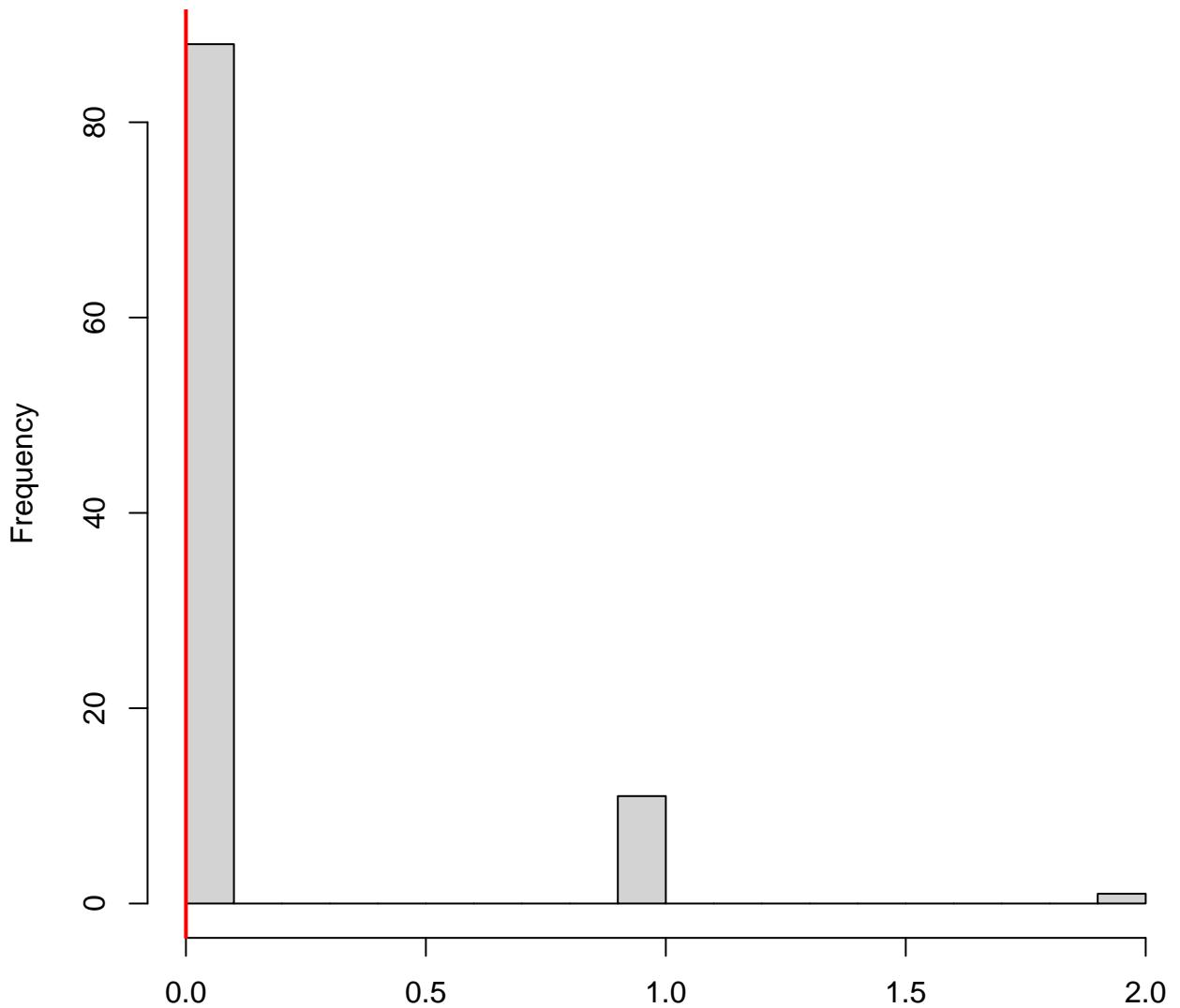


Simulated values, red line = fitted model. p-value (two.sided) = 0.38

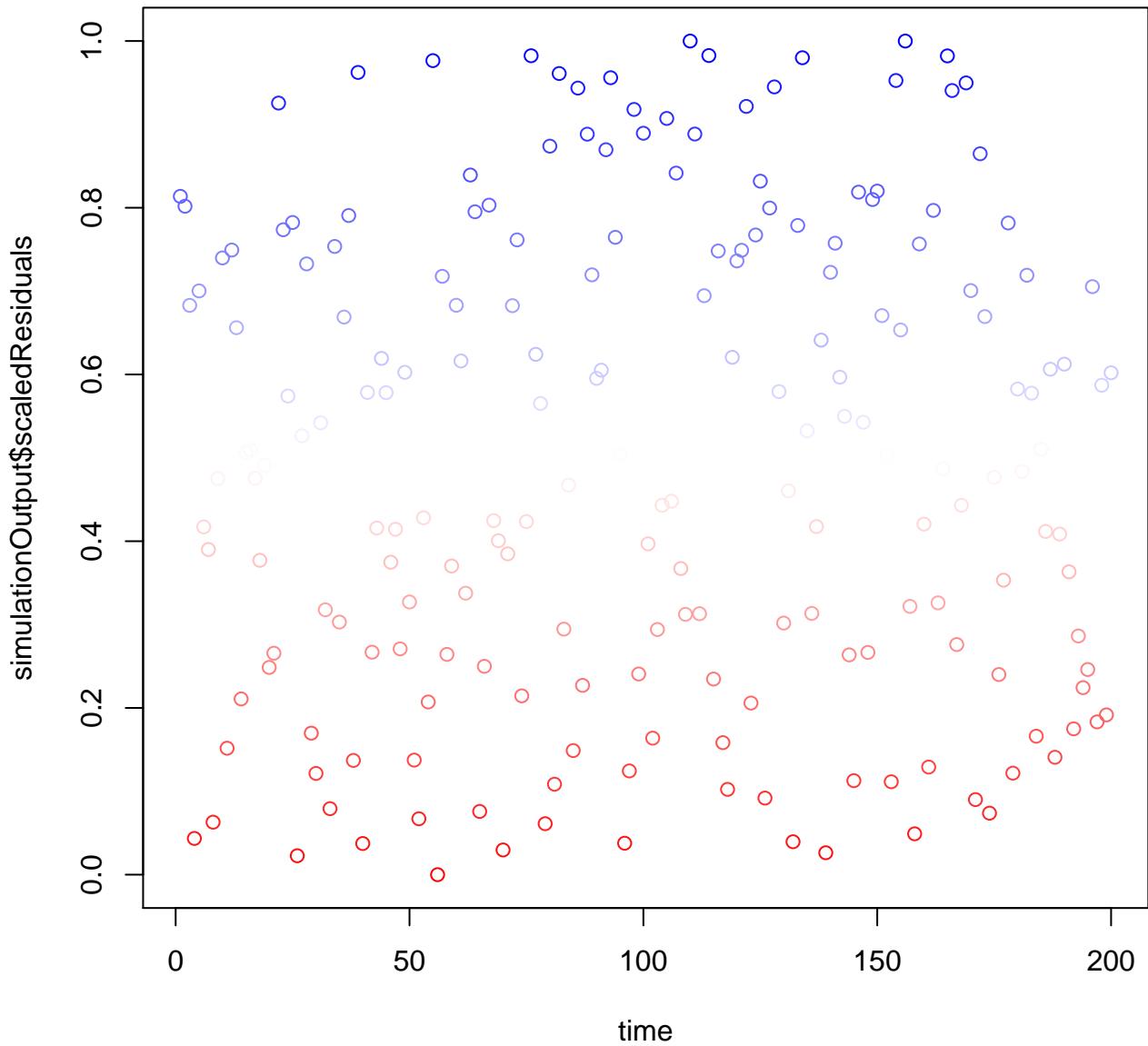
QQ plot residuals

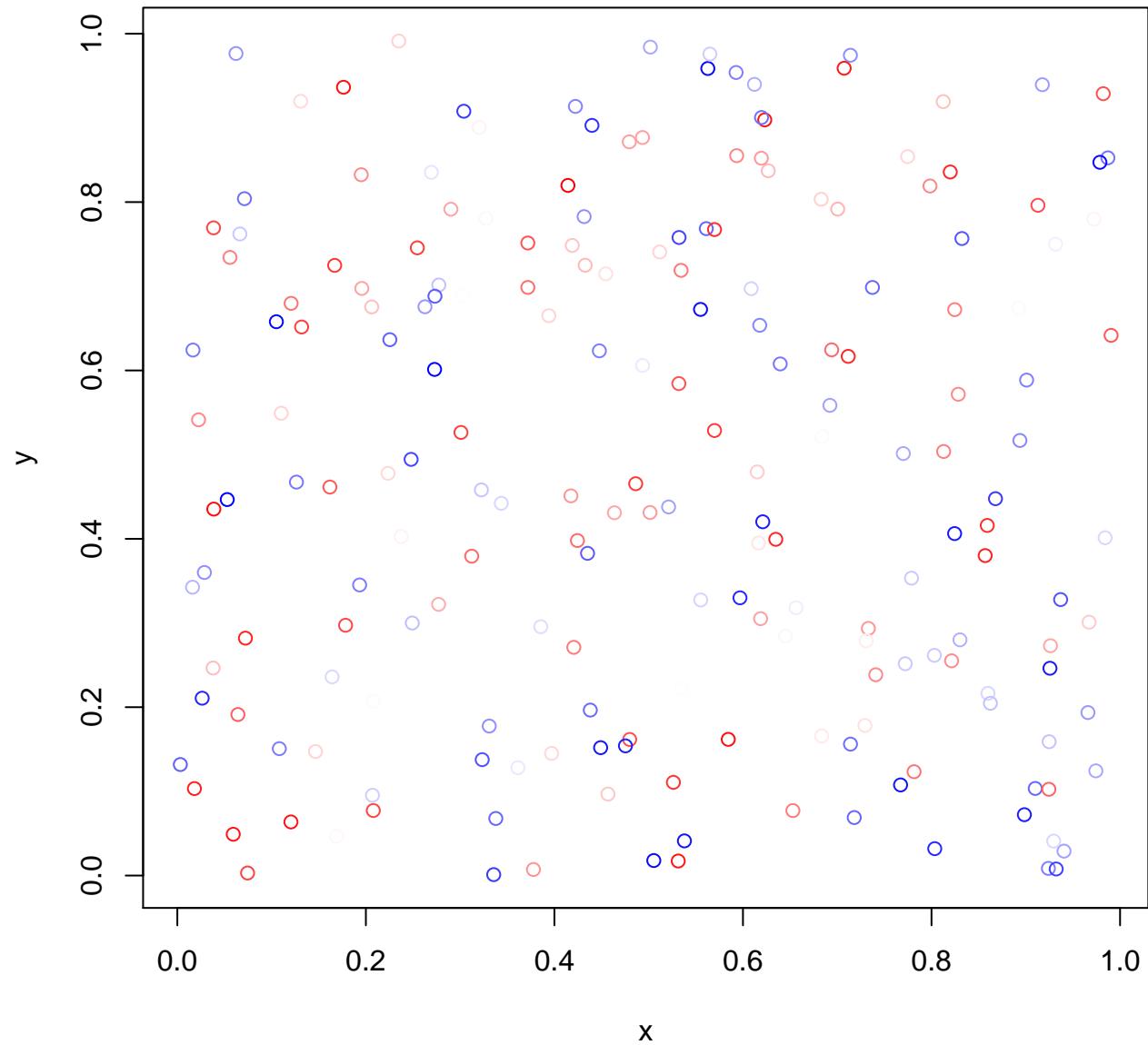


DHARMA zero-inflation test via comparison to expected zeros with simulation under H0 = fitted model

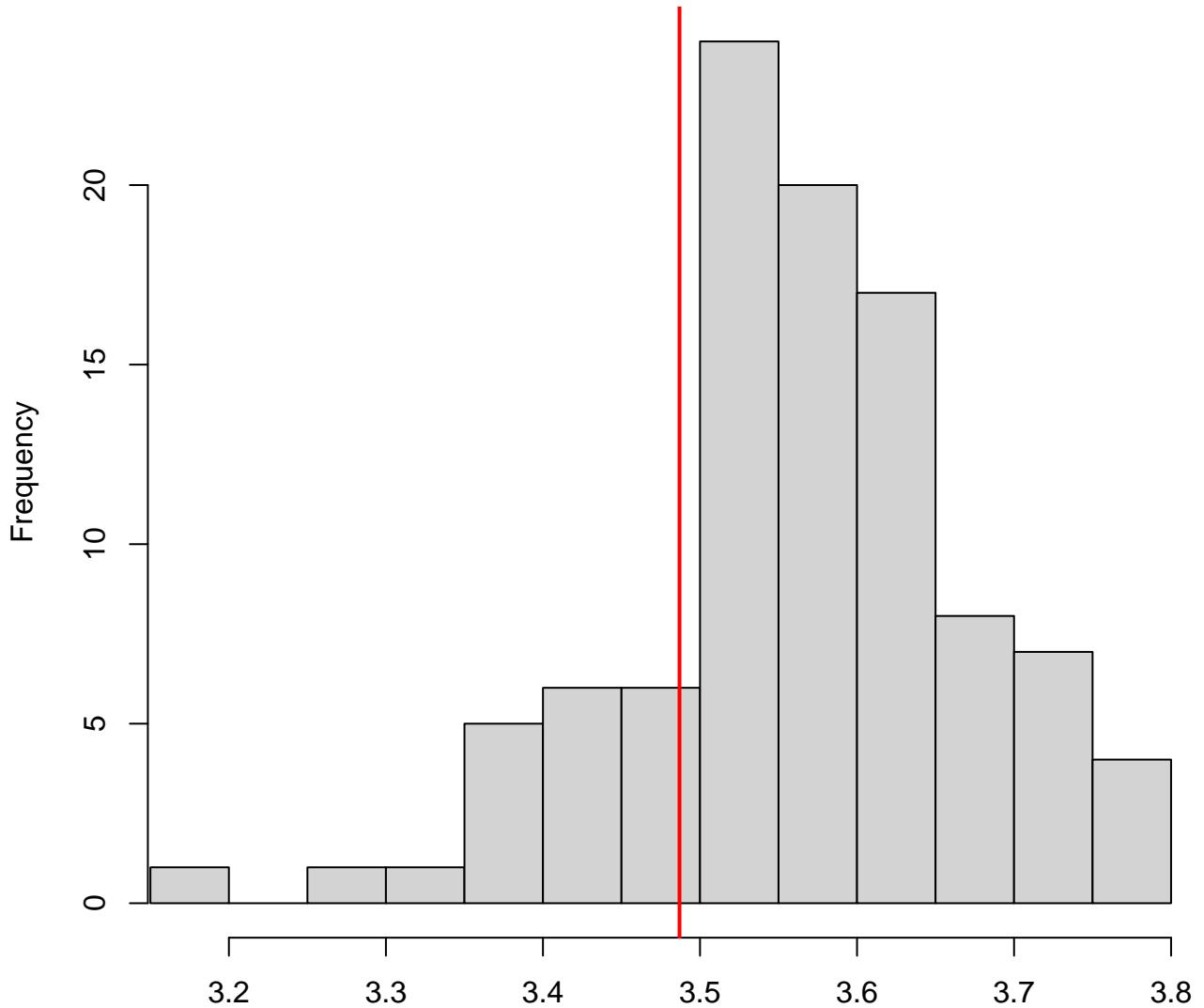


Simulated values, red line = fitted model. p-value (two.sided) = 1



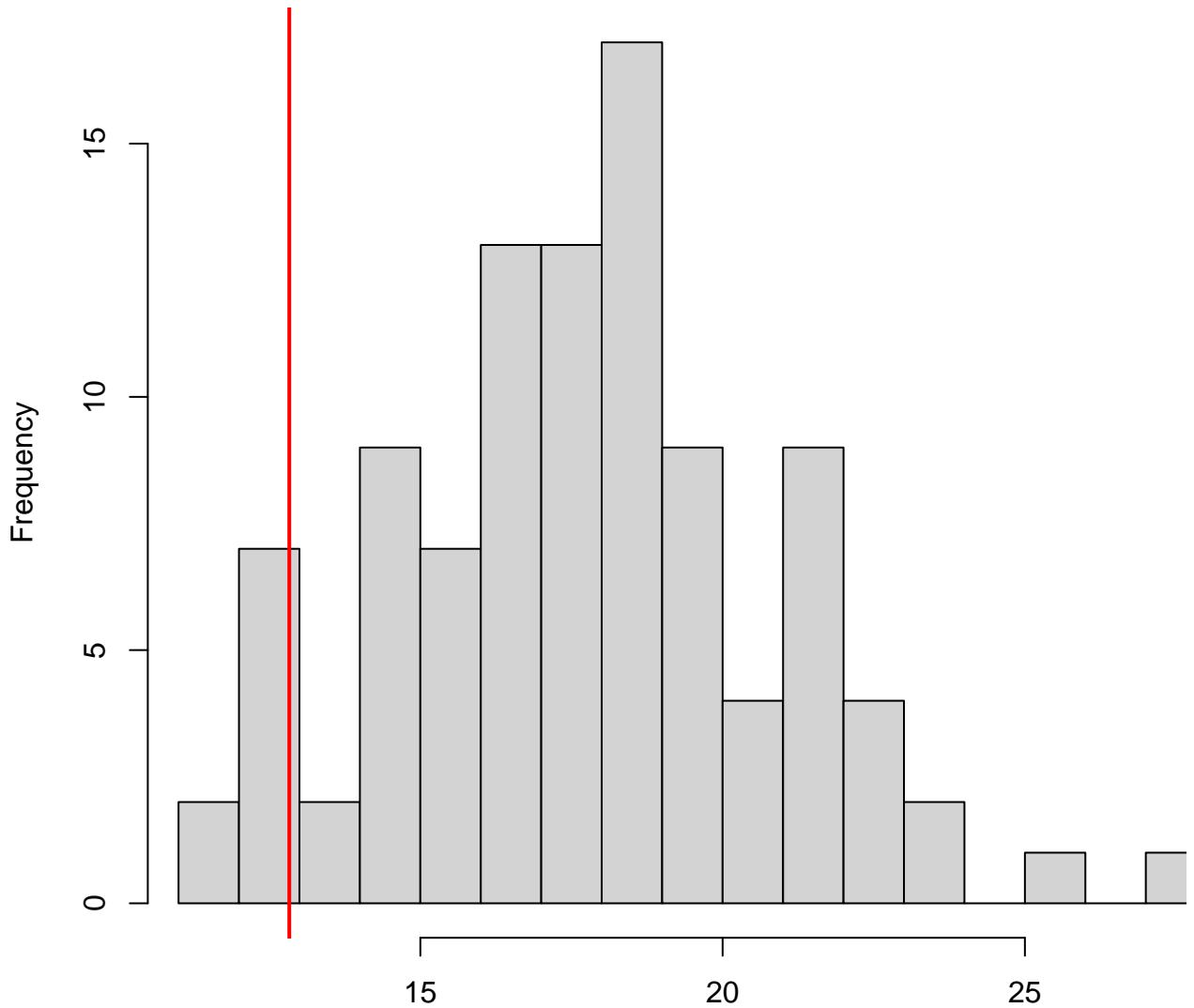


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.38

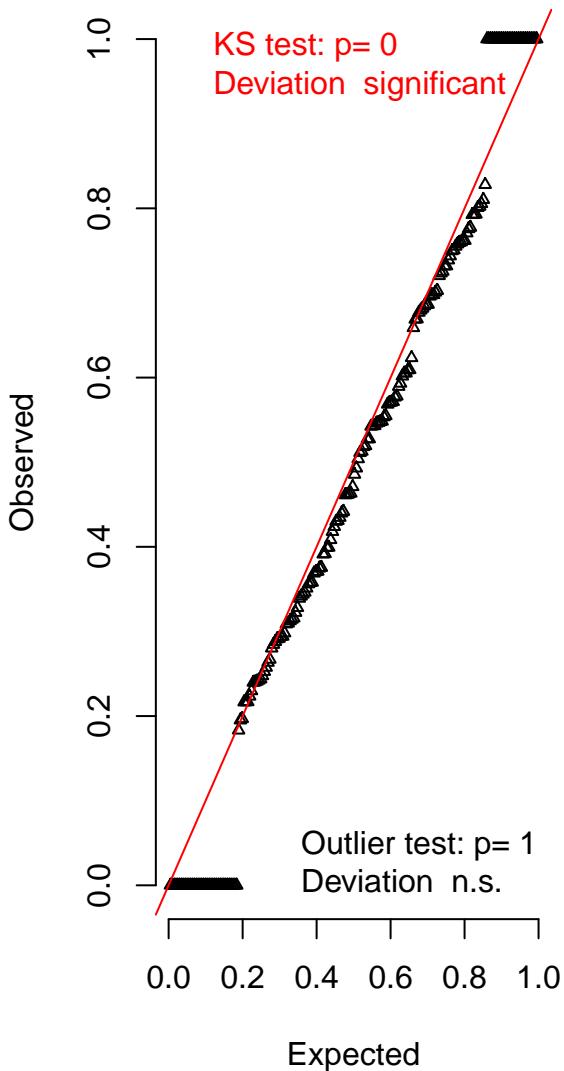
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



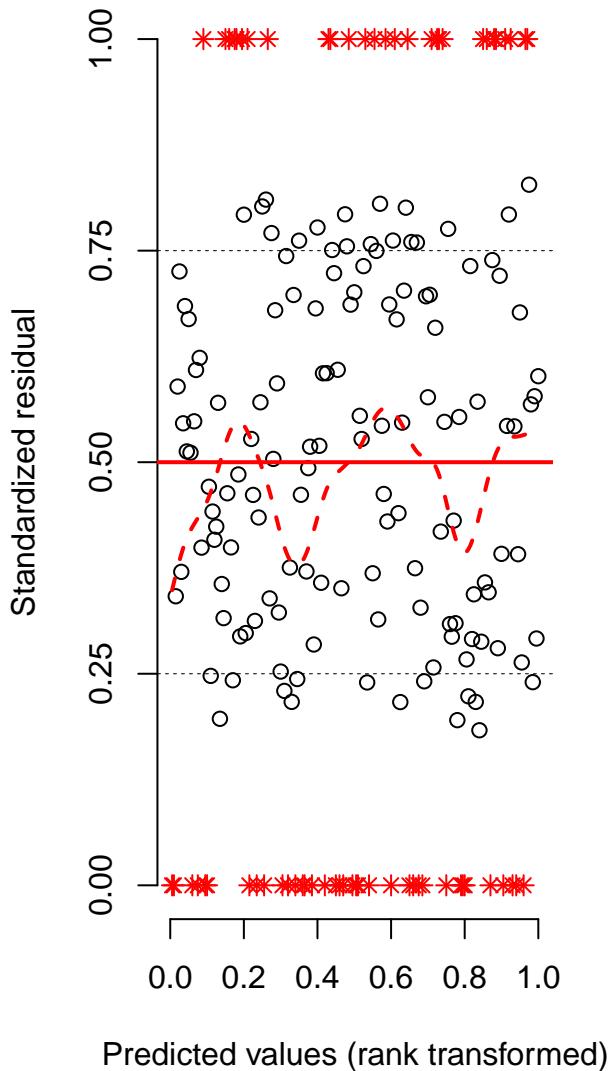
Simulated values, red line = fitted model. p-value (two.sided) = 0.12

DHARMA scaled residual plots

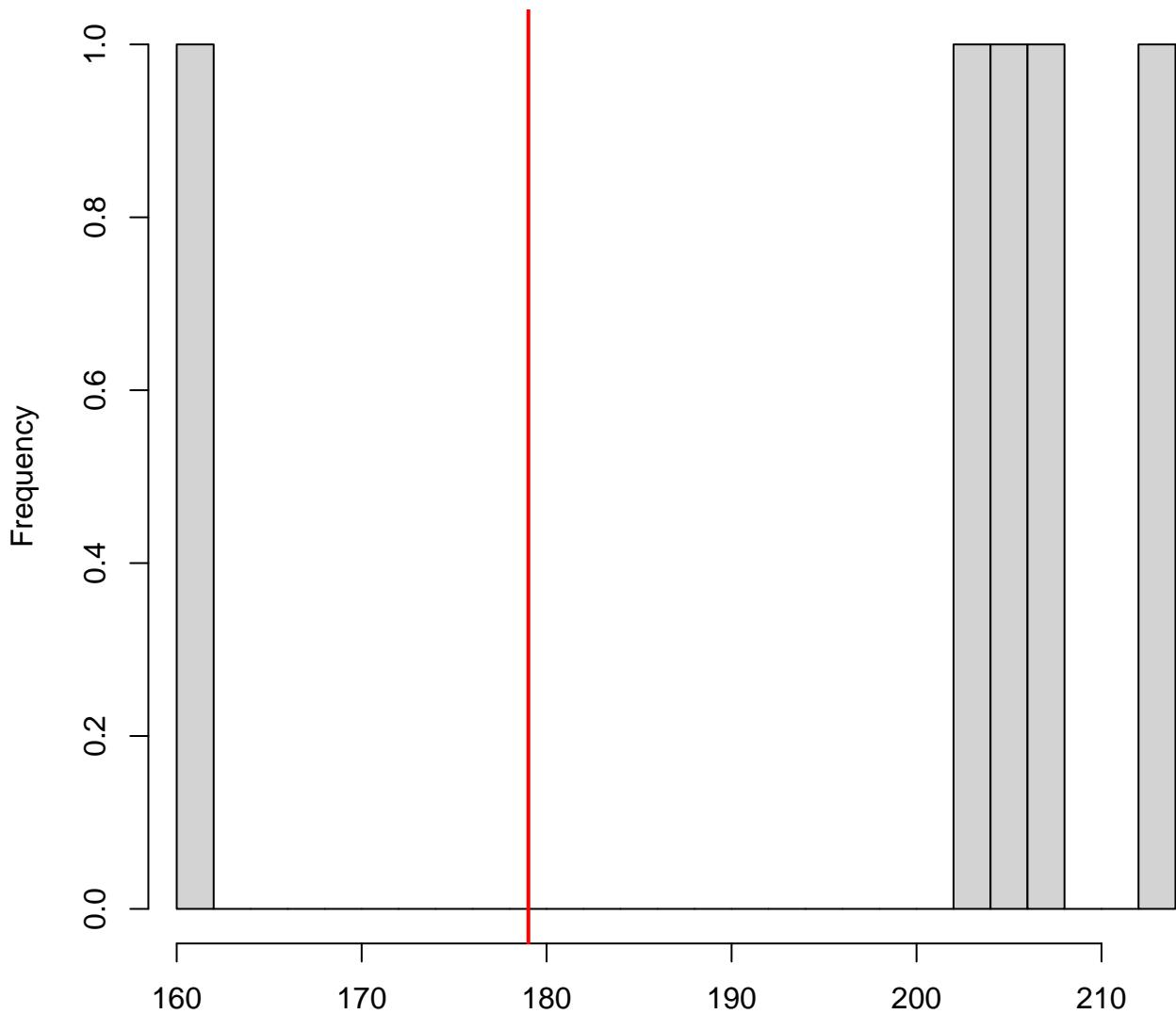
QQ plot residuals



Residual vs. predicted lines should match

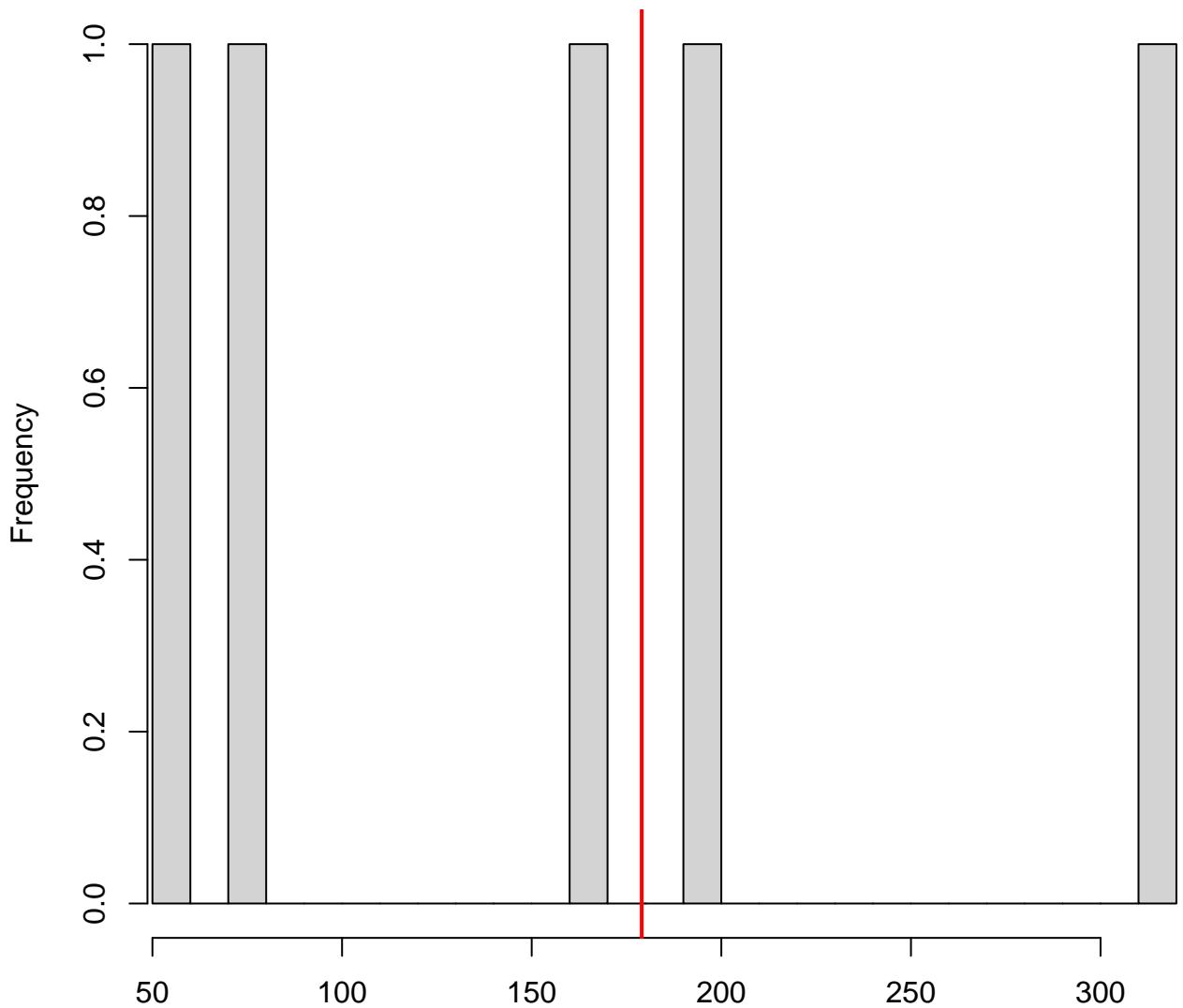


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



Simulated values, red line = fitted model. p-value (two.sided) = 0.4

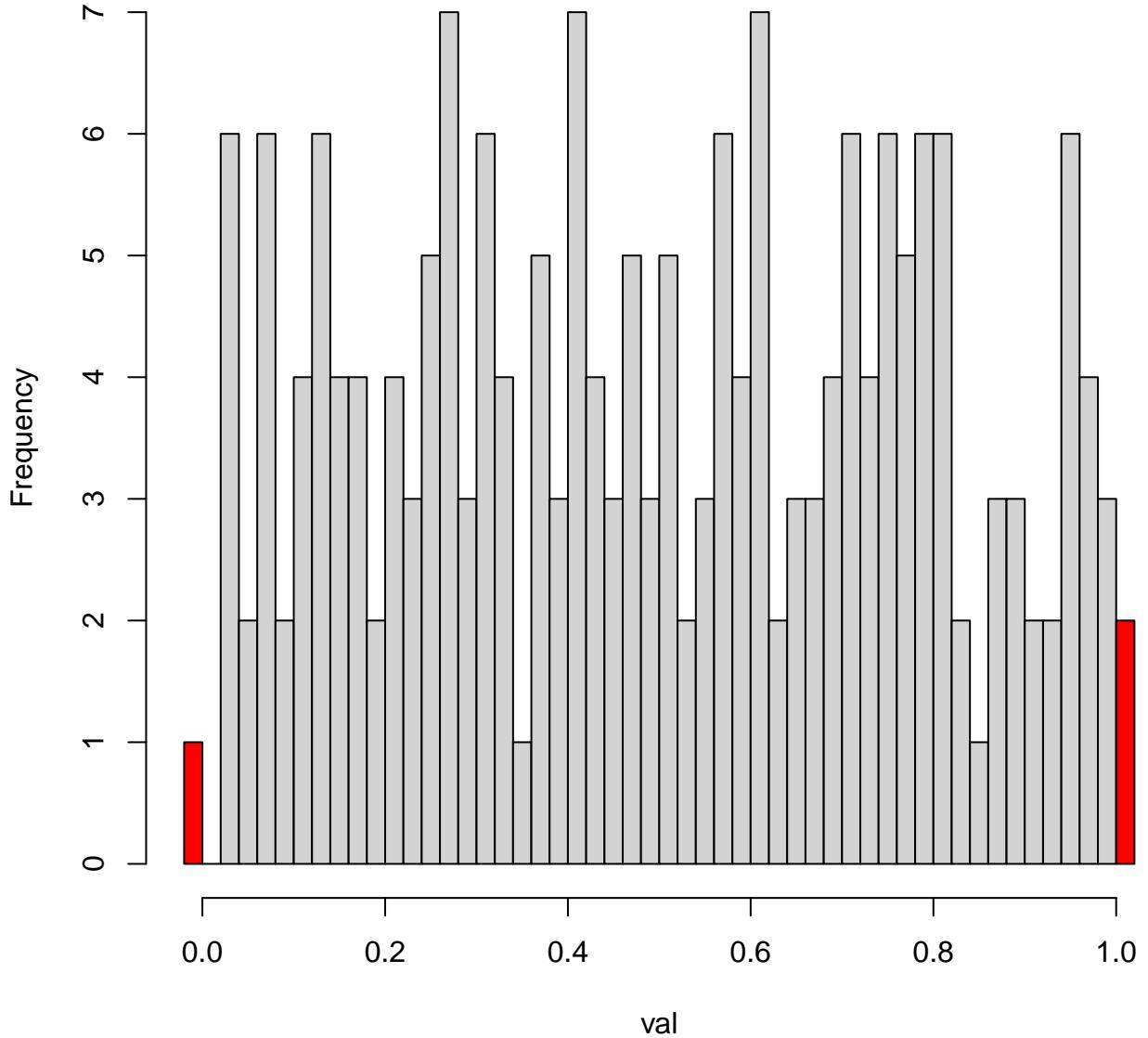
DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



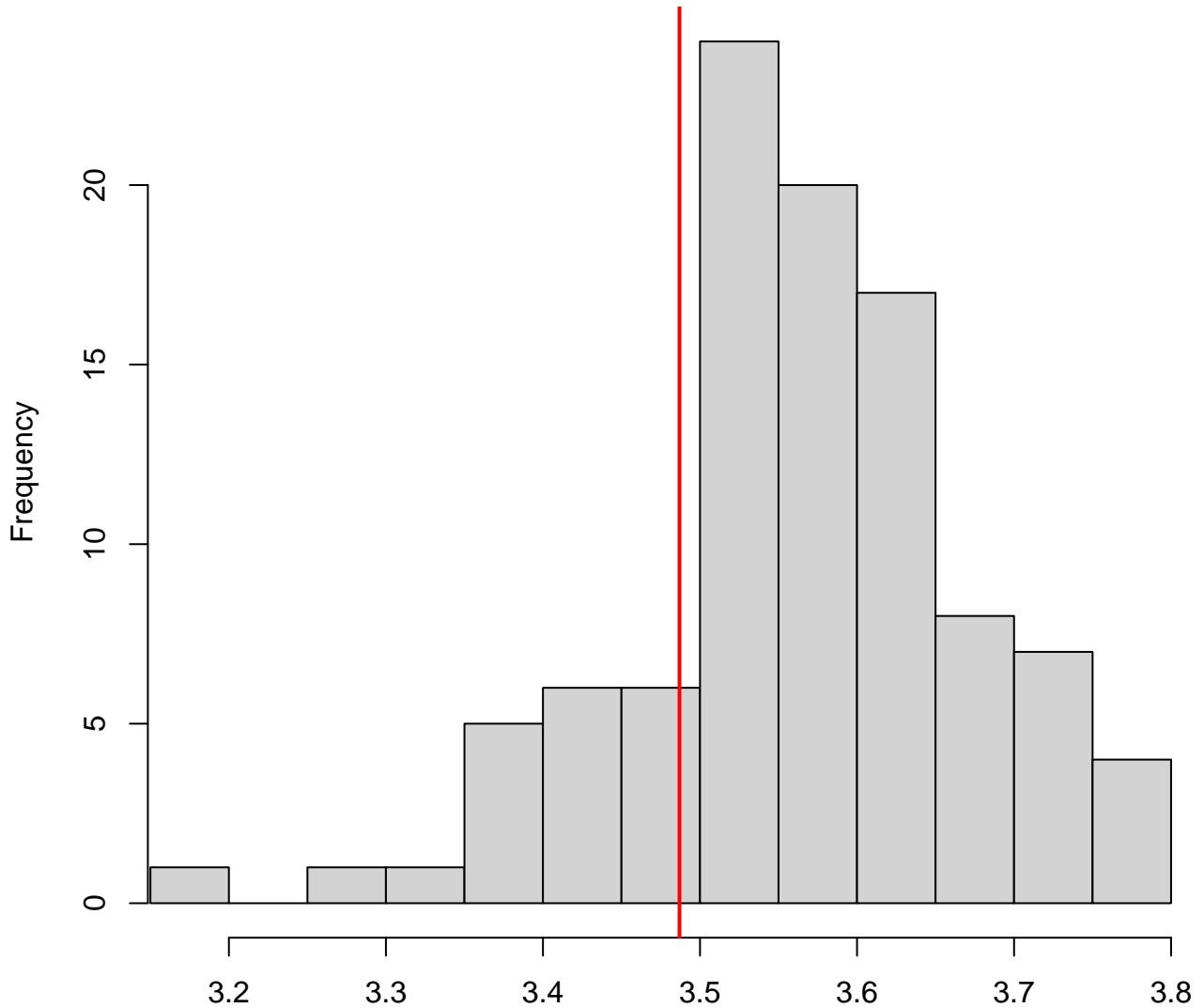
Simulated values, red line = fitted model. p-value (two.sided) = 0.8

Hist of DHARMA residuals

Outliers are marked red

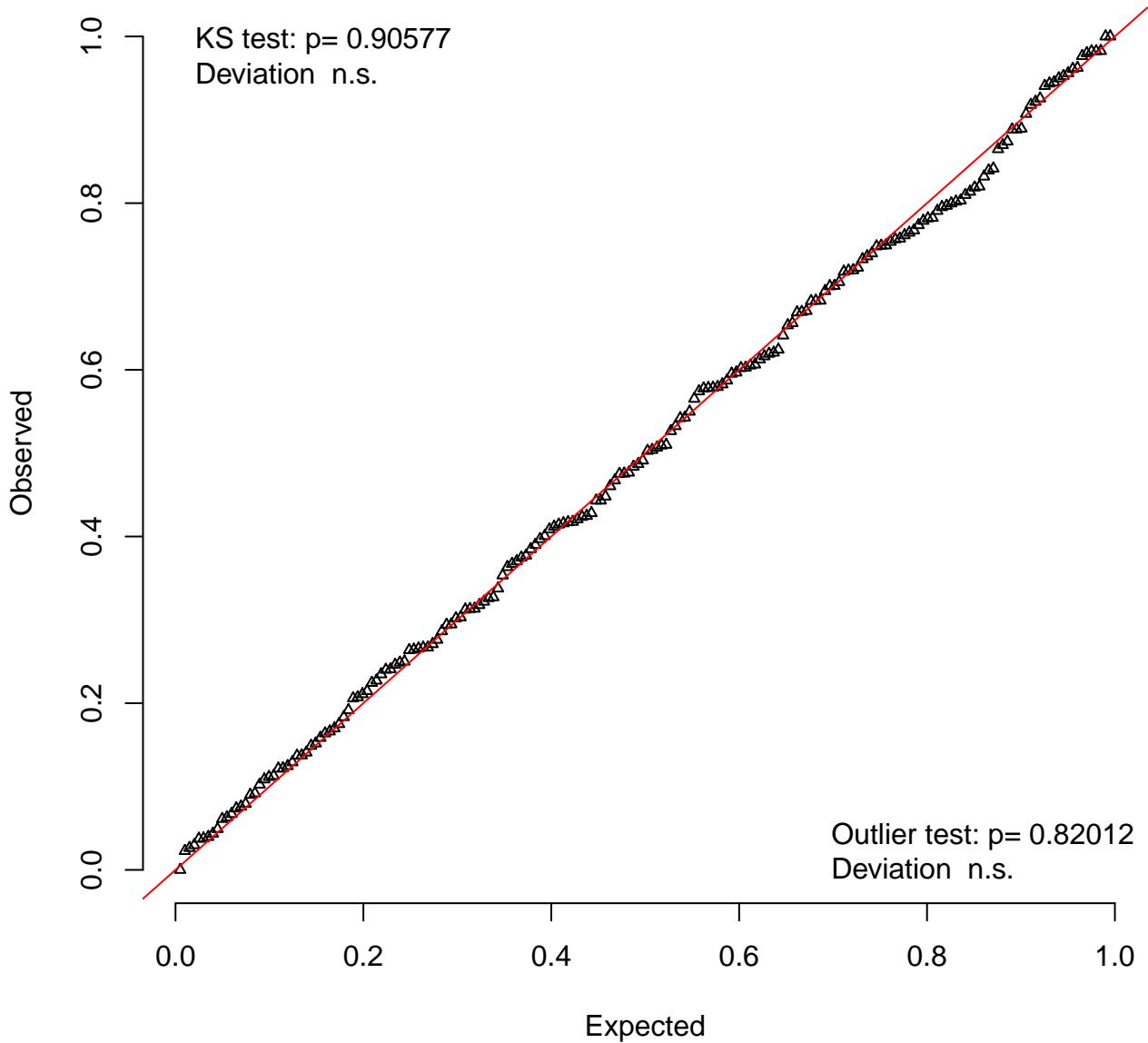


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

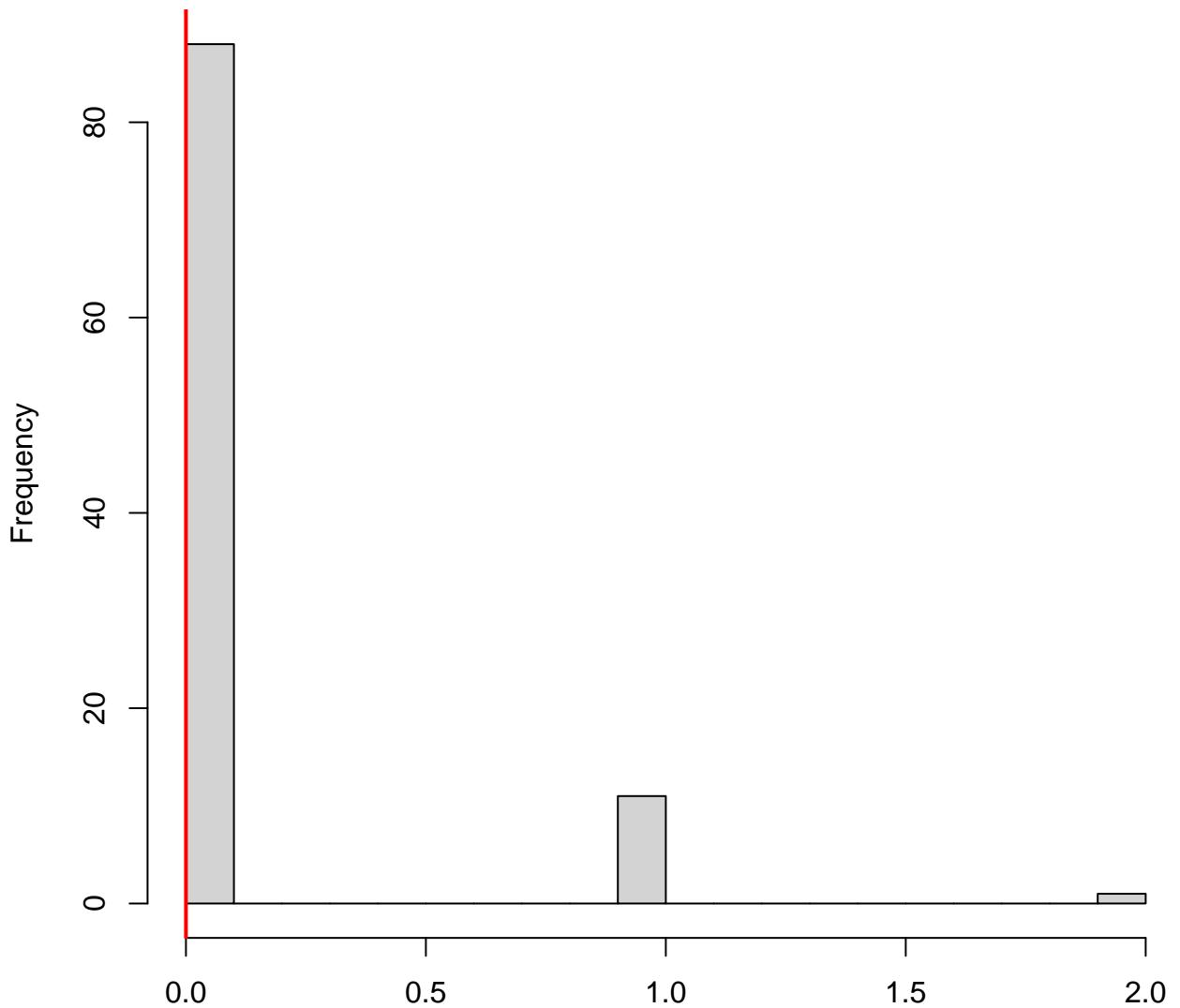


Simulated values, red line = fitted model. p-value (two.sided) = 0.38

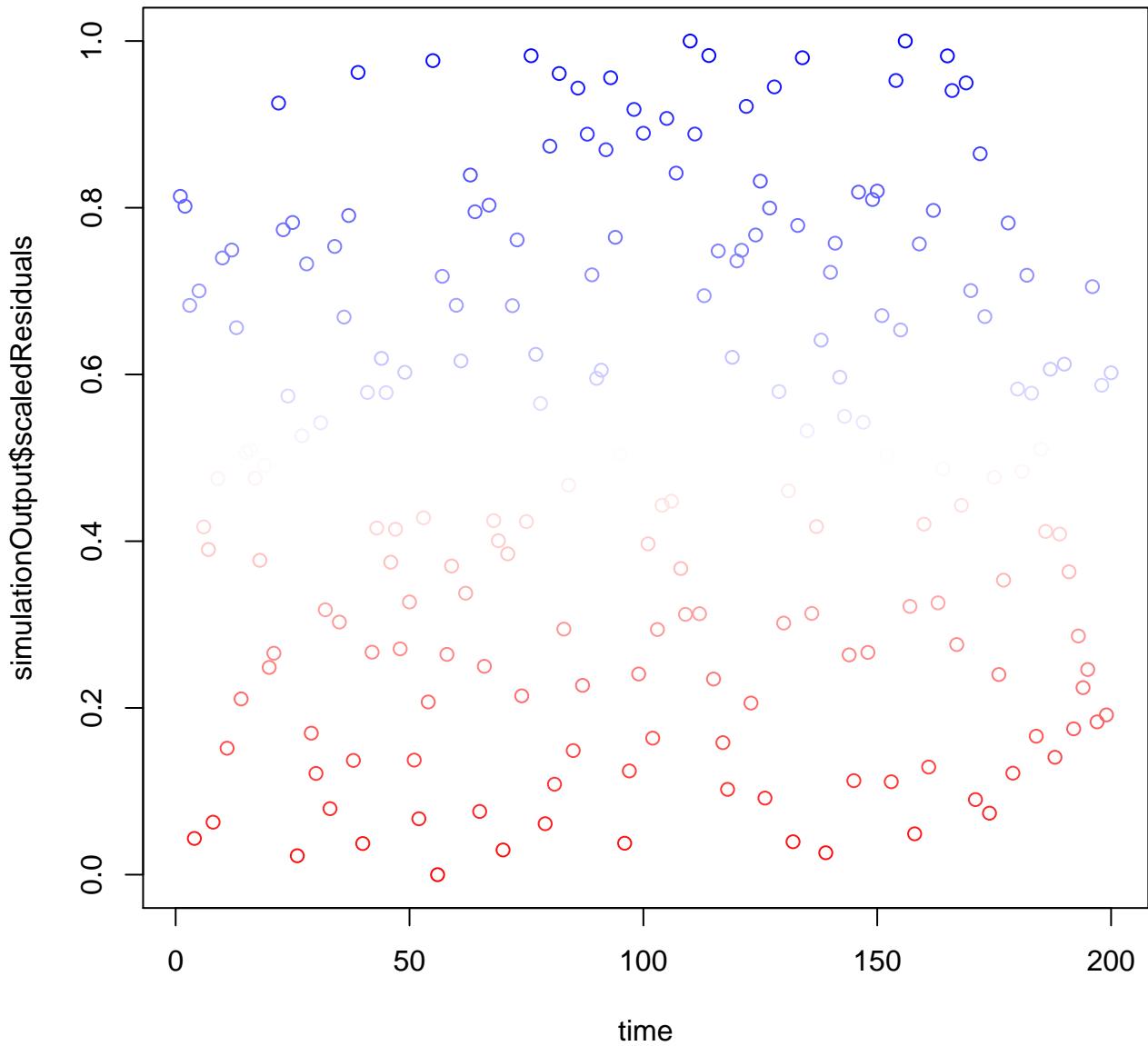
QQ plot residuals

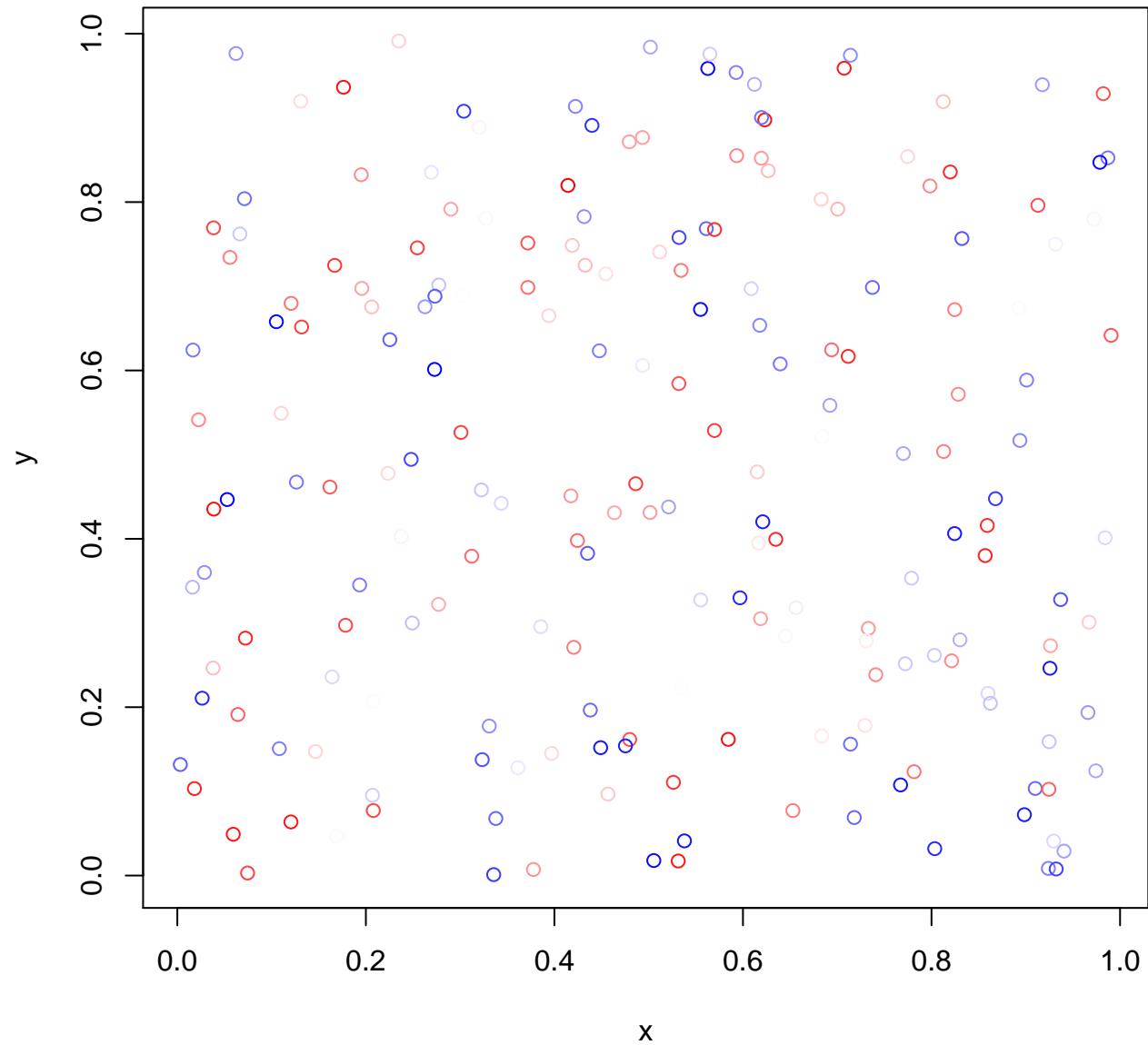


DHARMA zero-inflation test via comparison to expected zeros with simulation under H0 = fitted model

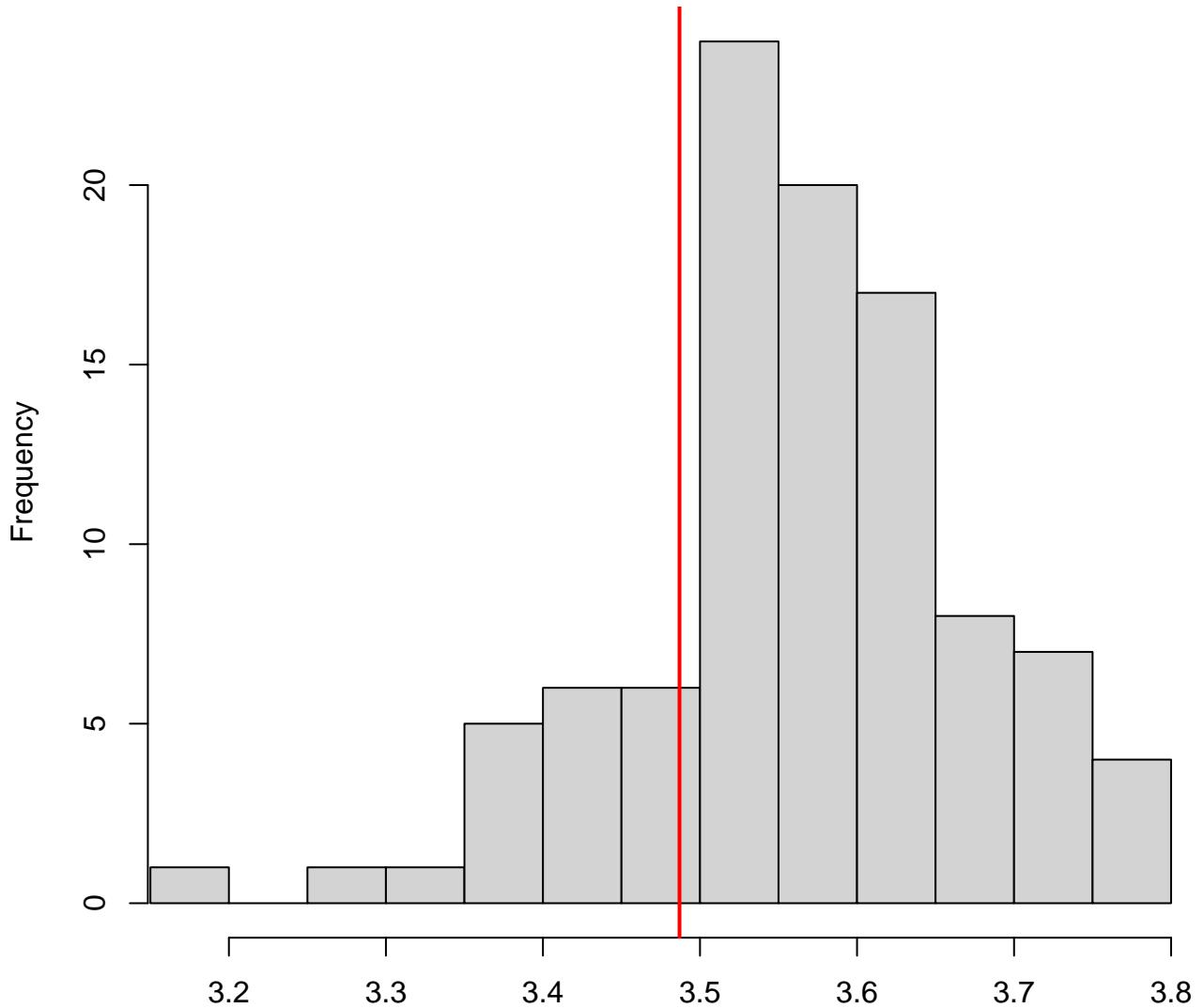


Simulated values, red line = fitted model. p-value (two.sided) = 1



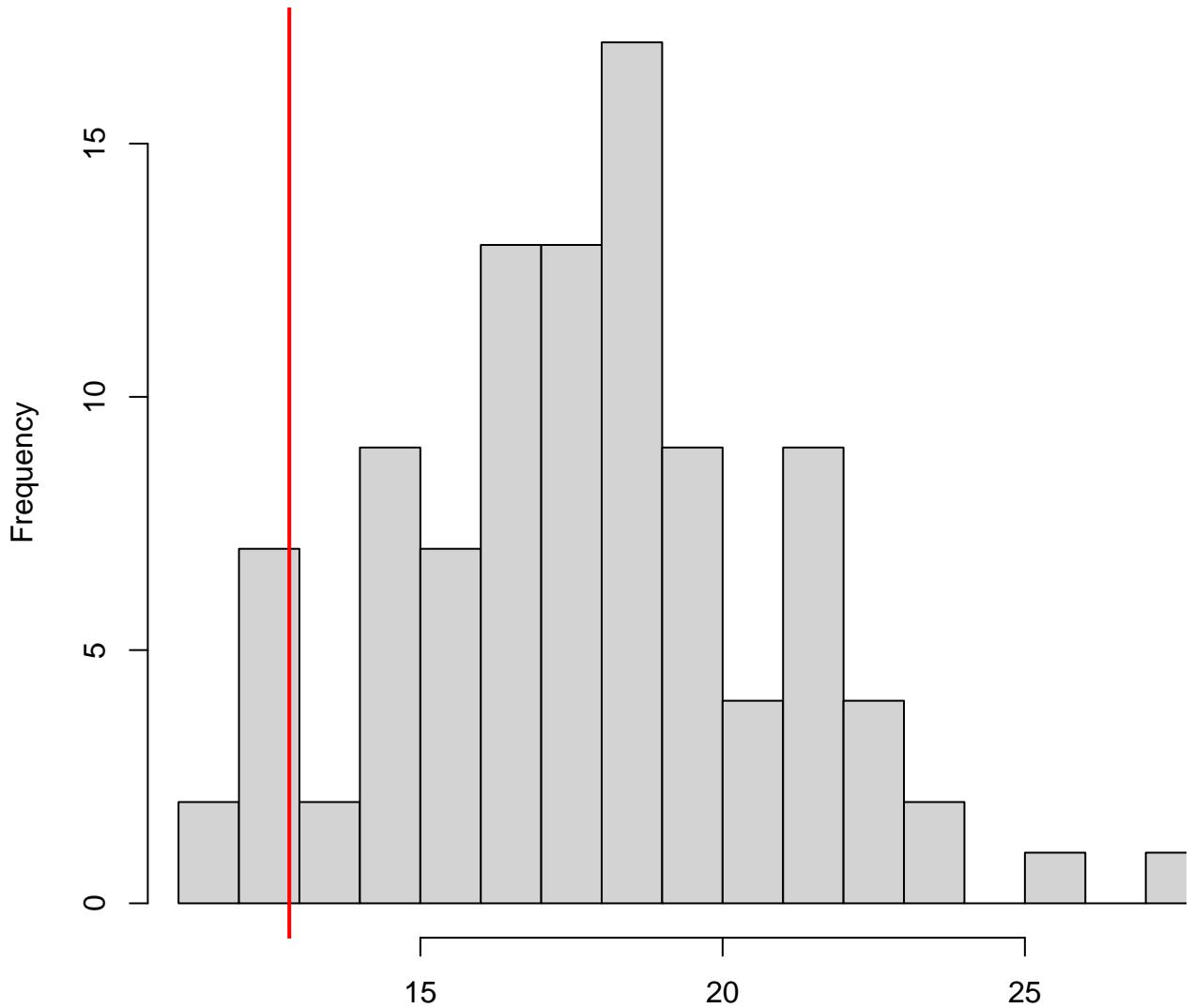


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.38

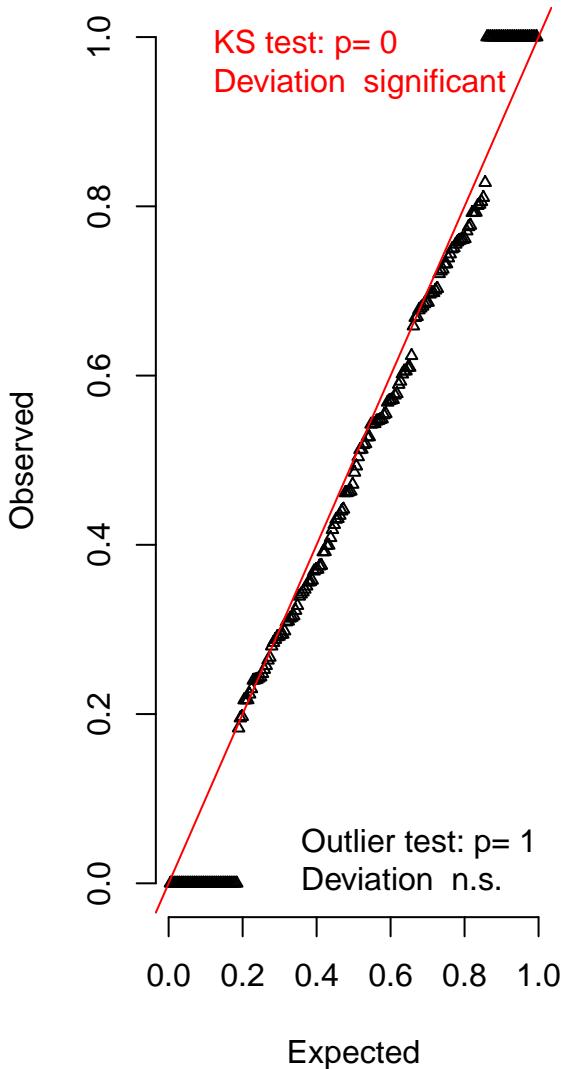
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



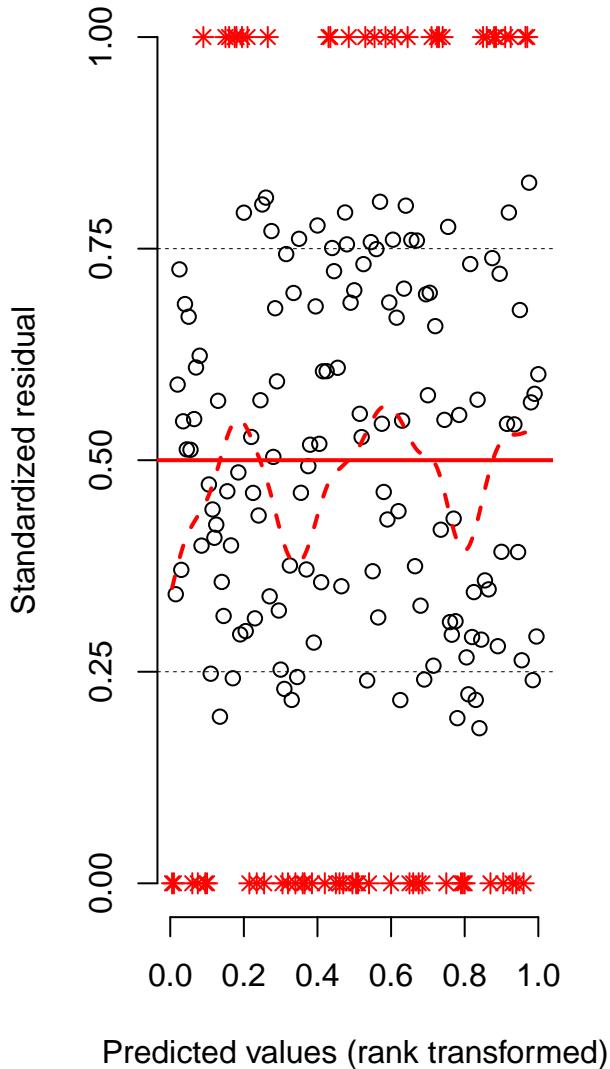
Simulated values, red line = fitted model. p-value (two.sided) = 0.12

DHARMA scaled residual plots

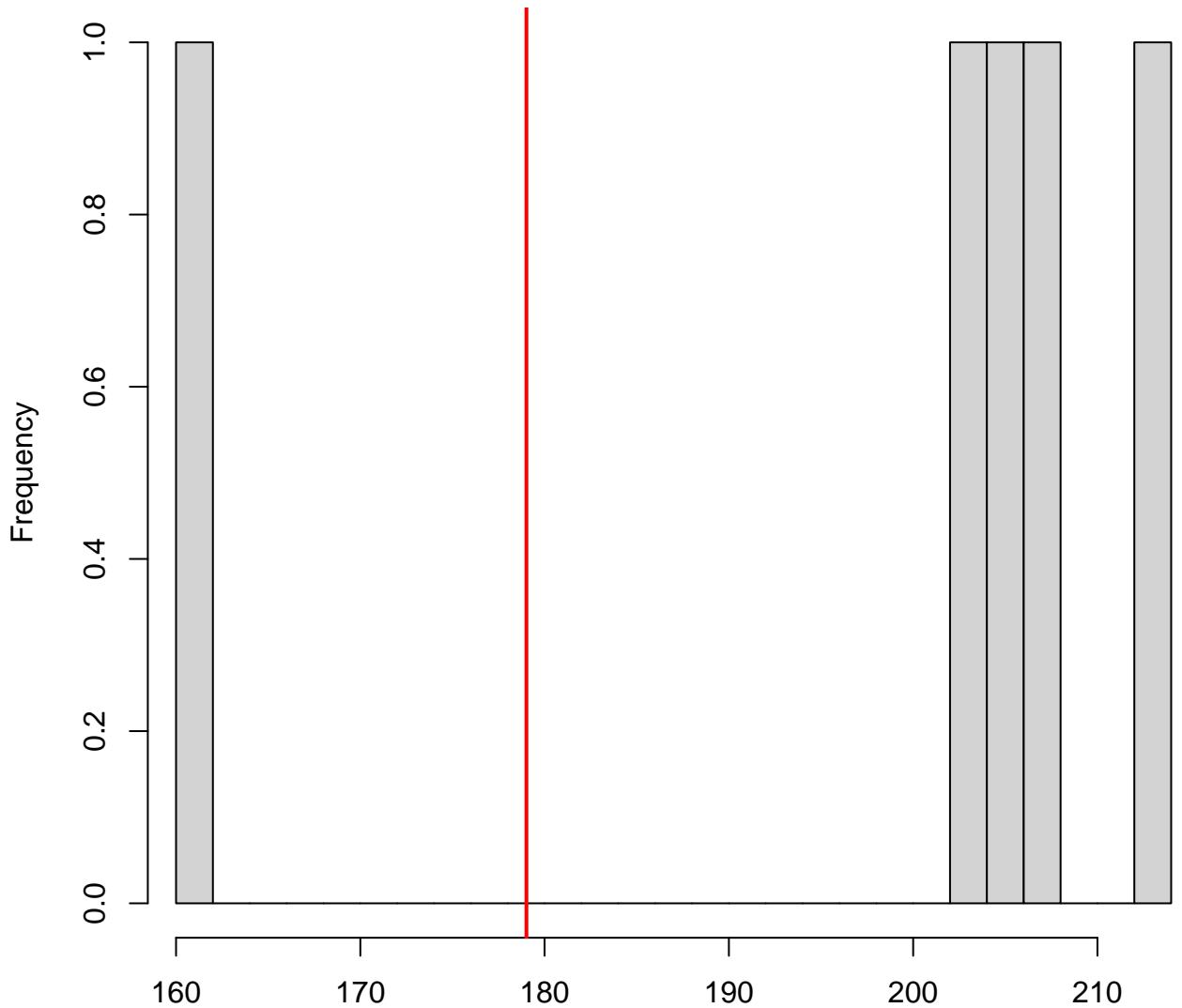
QQ plot residuals



Residual vs. predicted lines should match

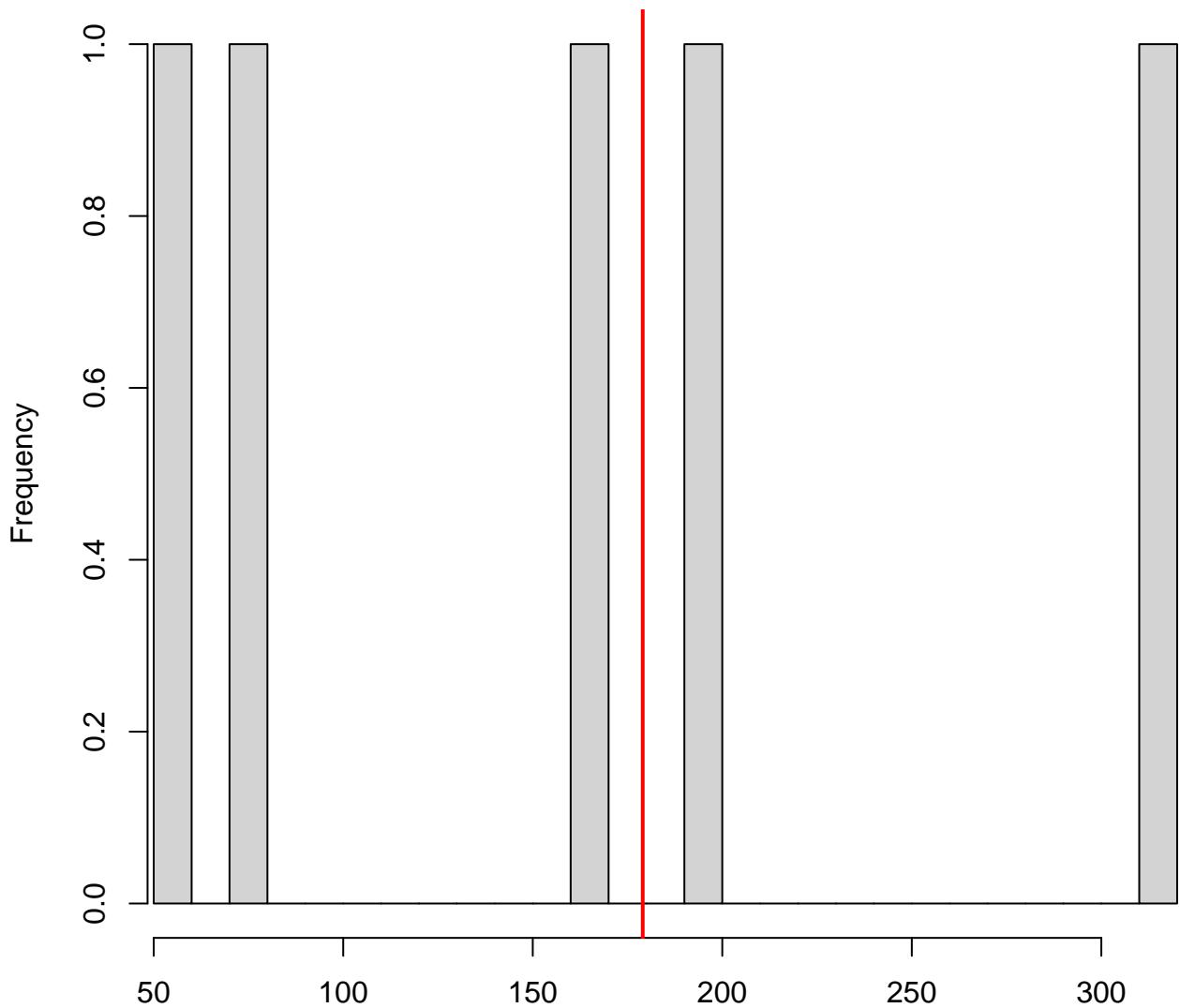


DHARMa nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



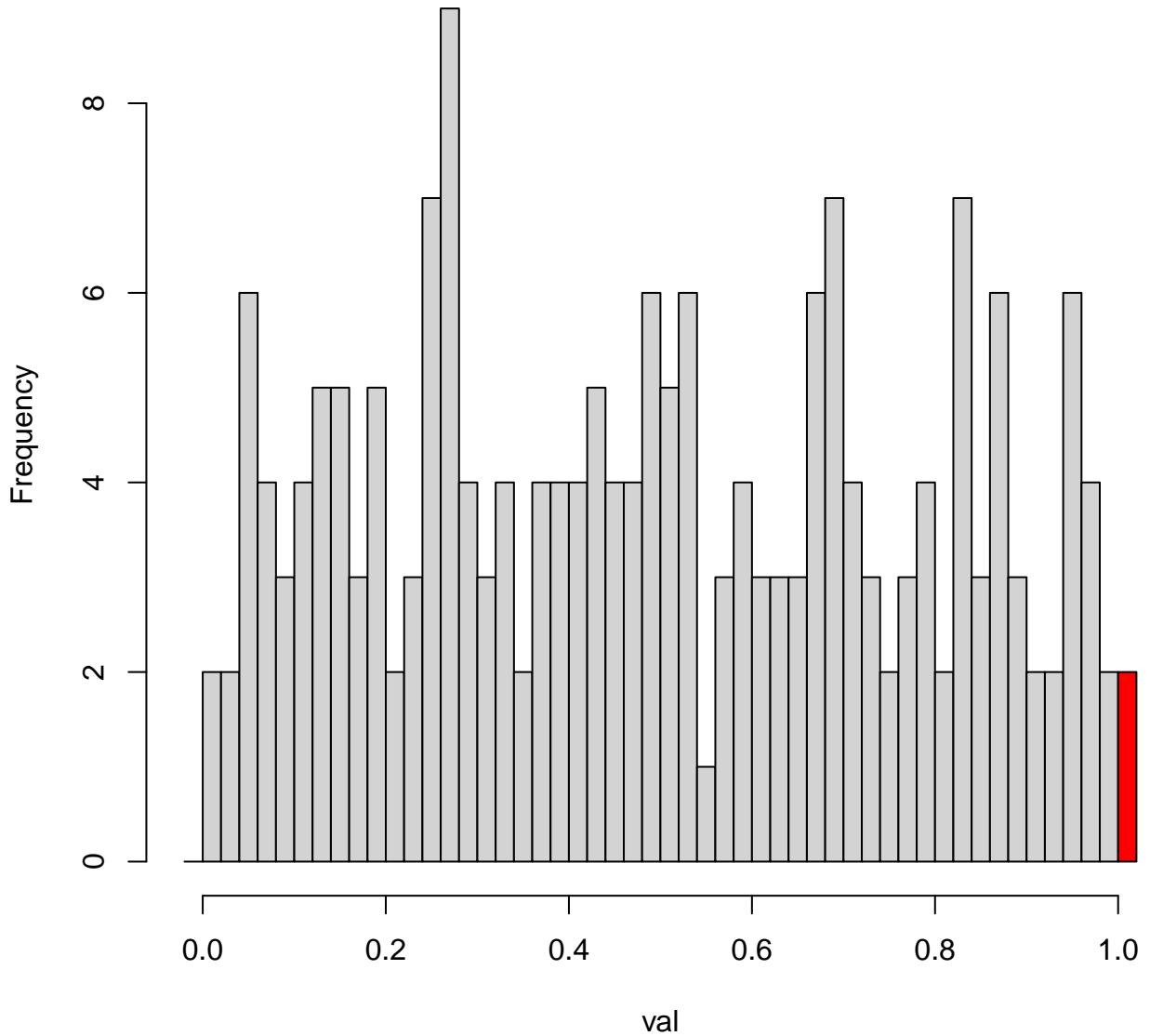
Simulated values, red line = fitted model. p-value (two.sided) = 0.4

DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted

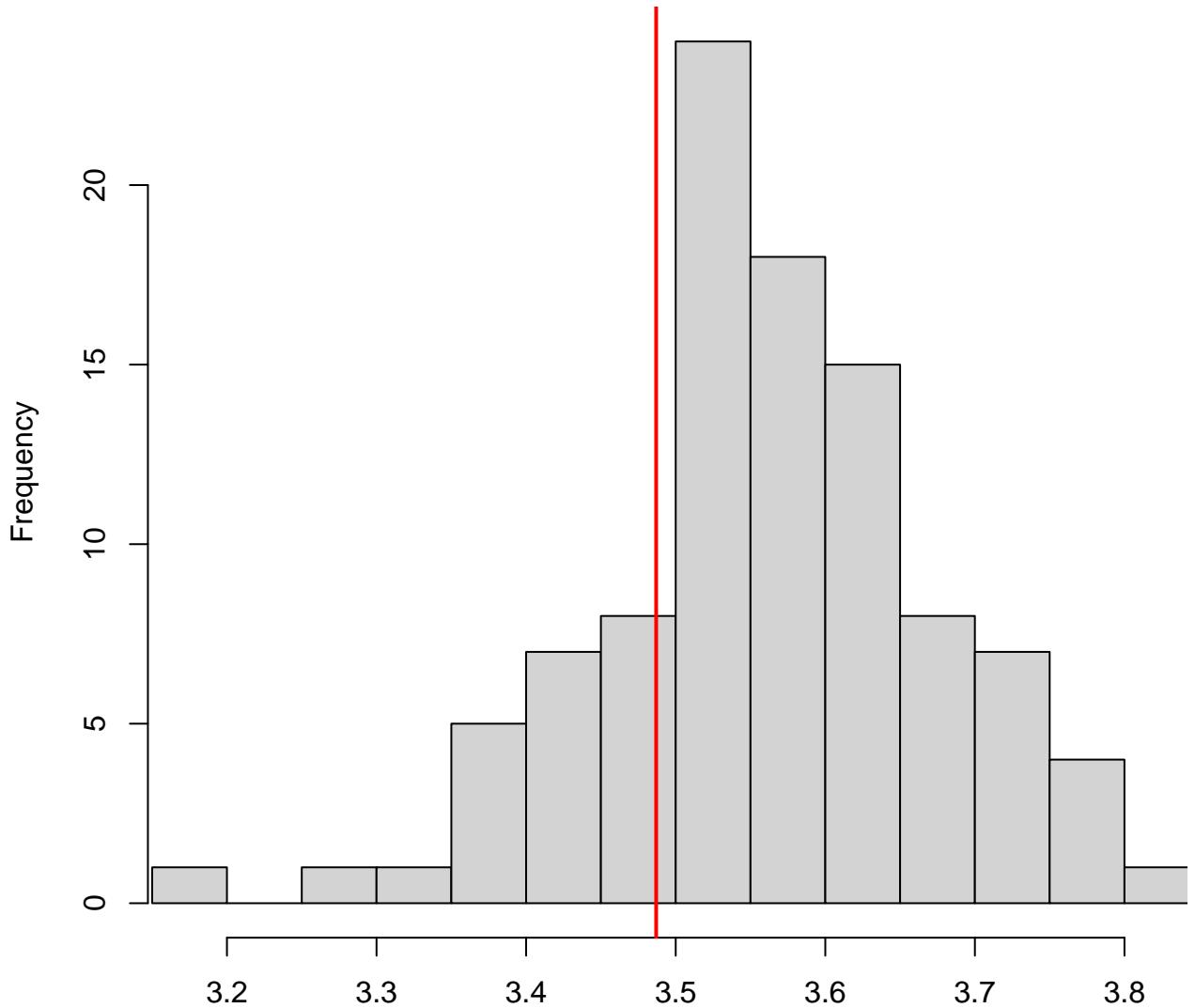


Simulated values, red line = fitted model. p-value (two.sided) = 0.8

Hist of DHARMA residuals
Outliers are marked red

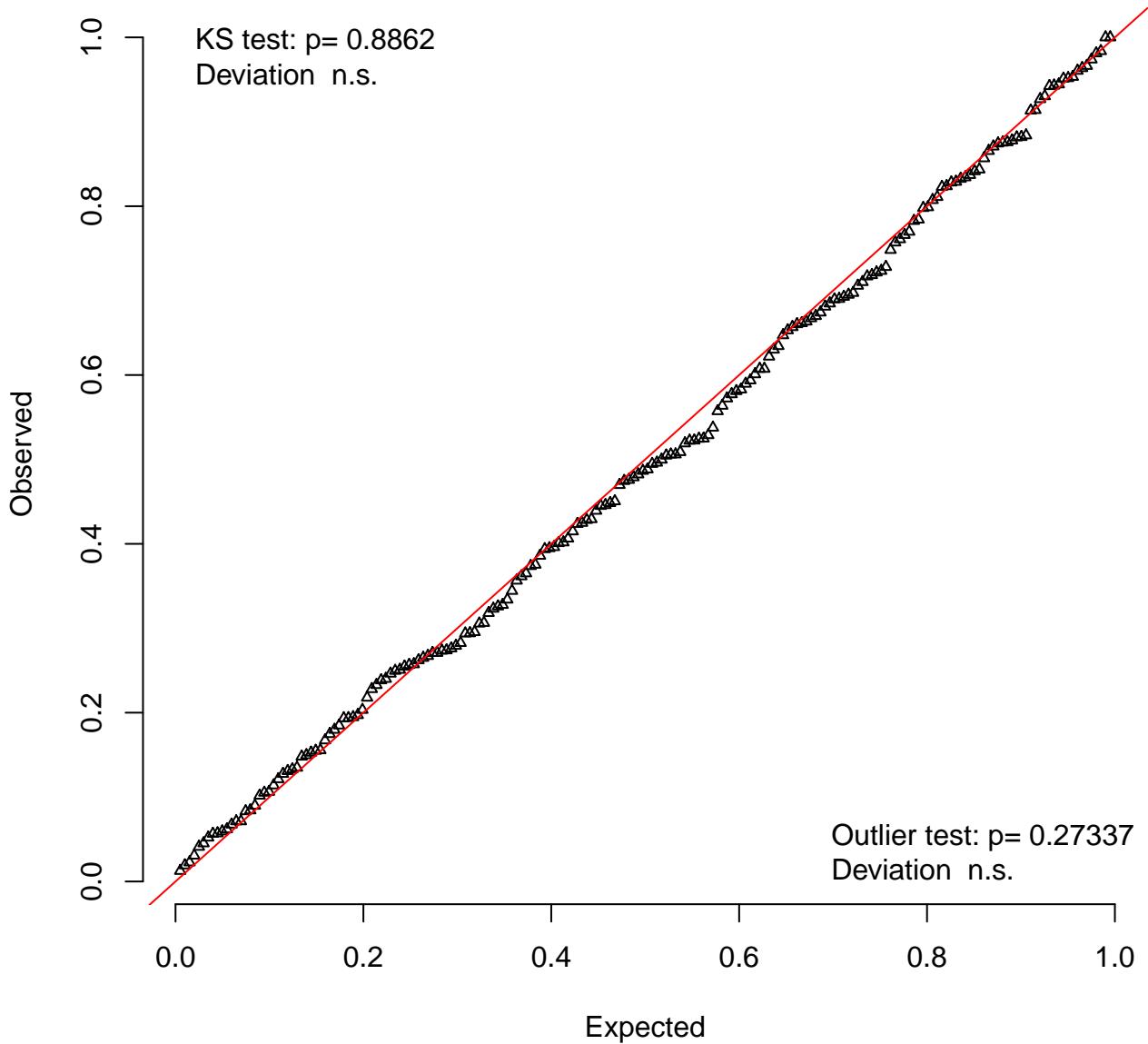


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

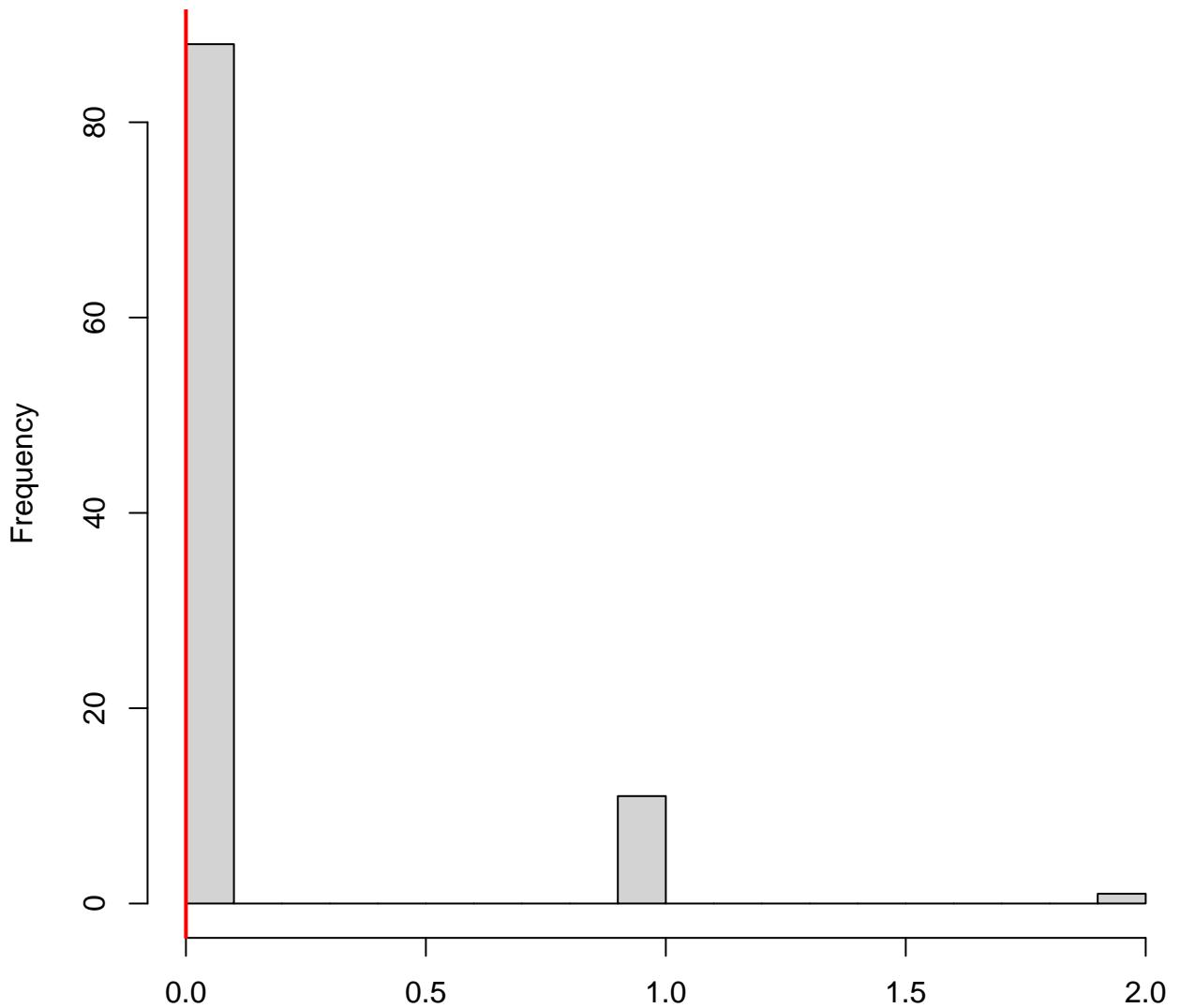


Simulated values, red line = fitted model. p-value (two.sided) = 0.44

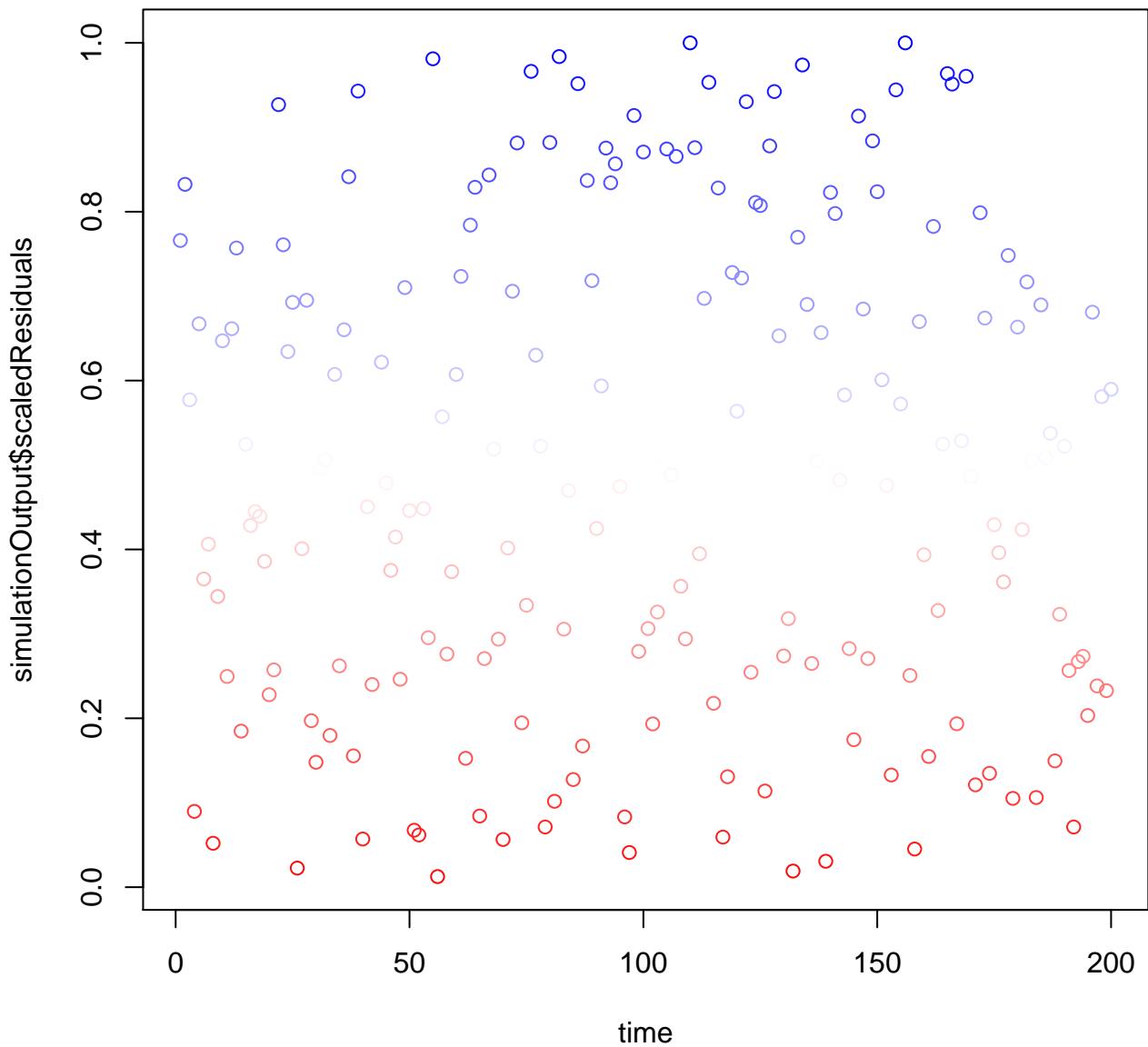
QQ plot residuals

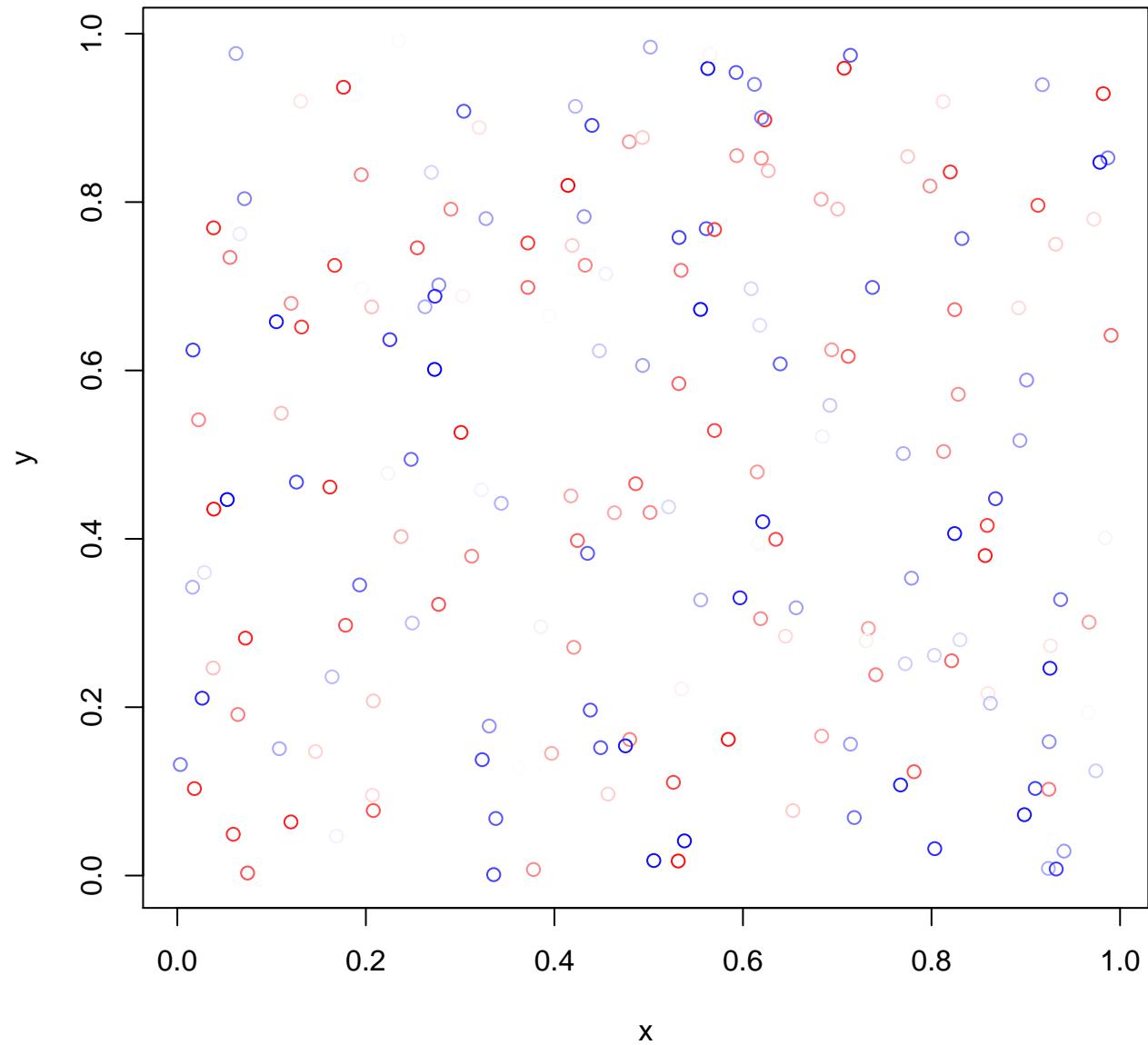


DHARMA zero-inflation test via comparison to expected zeros with simulation under H0 = fitted model

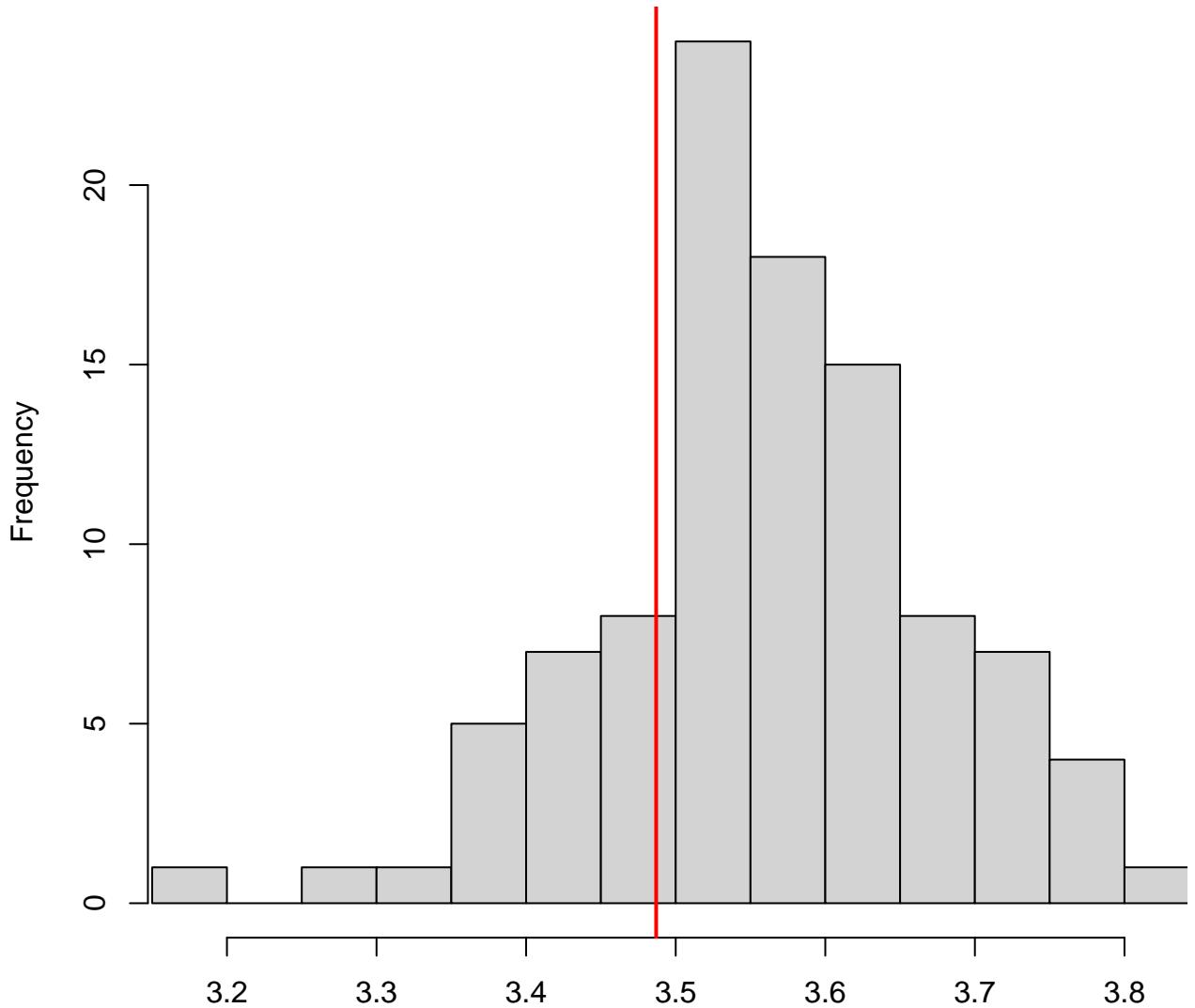


Simulated values, red line = fitted model. p-value (two.sided) = 1



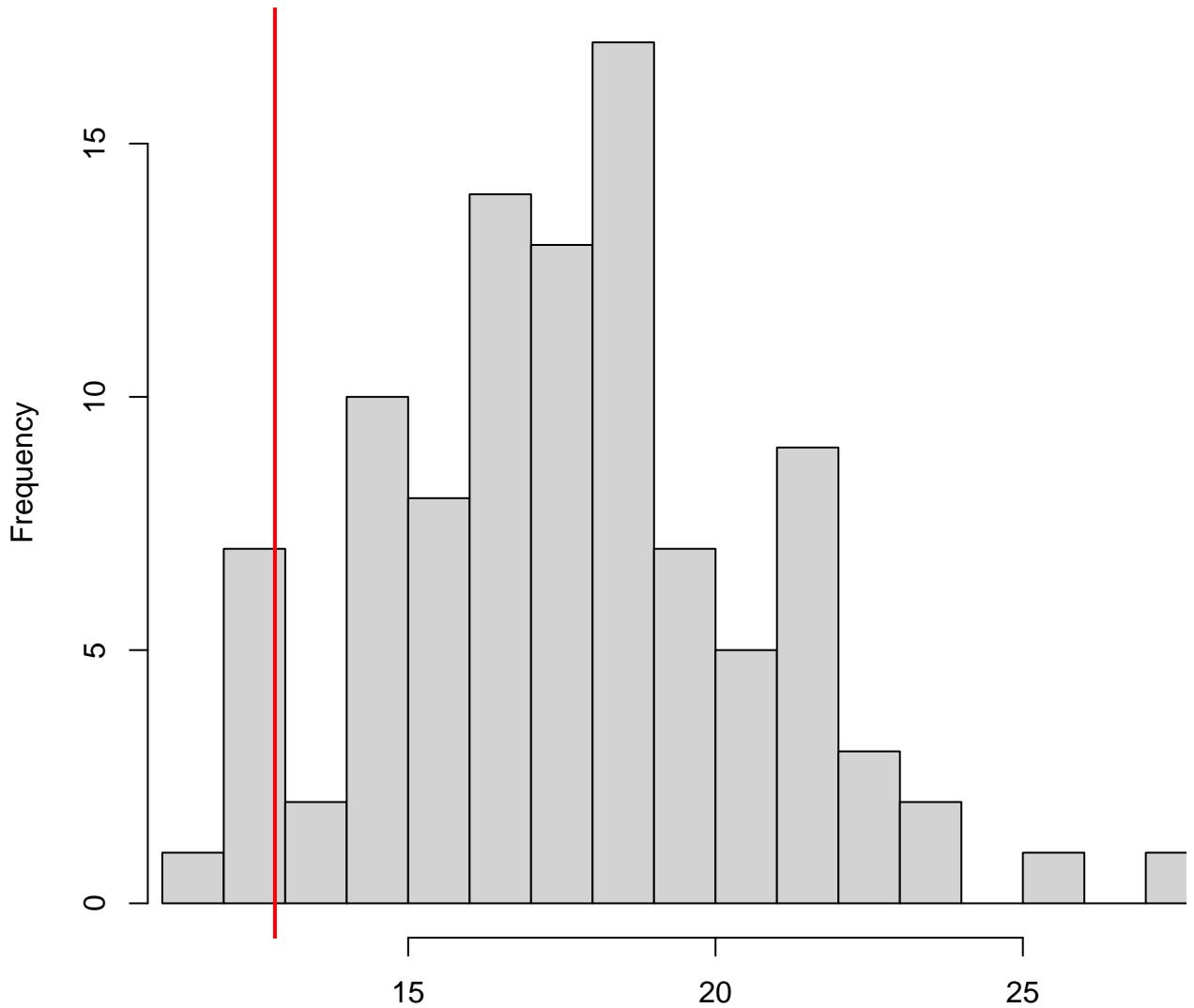


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.44

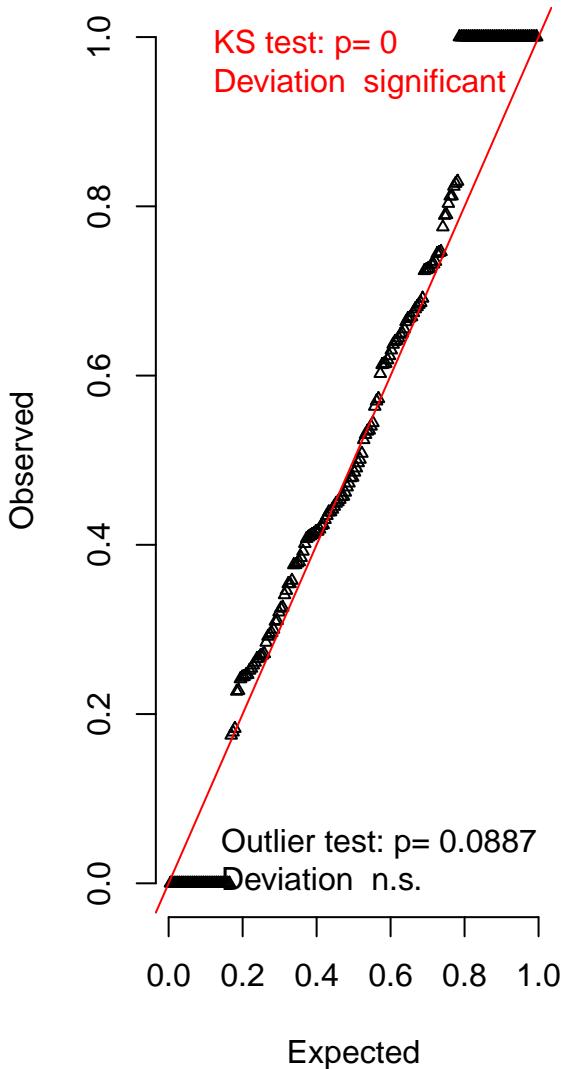
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



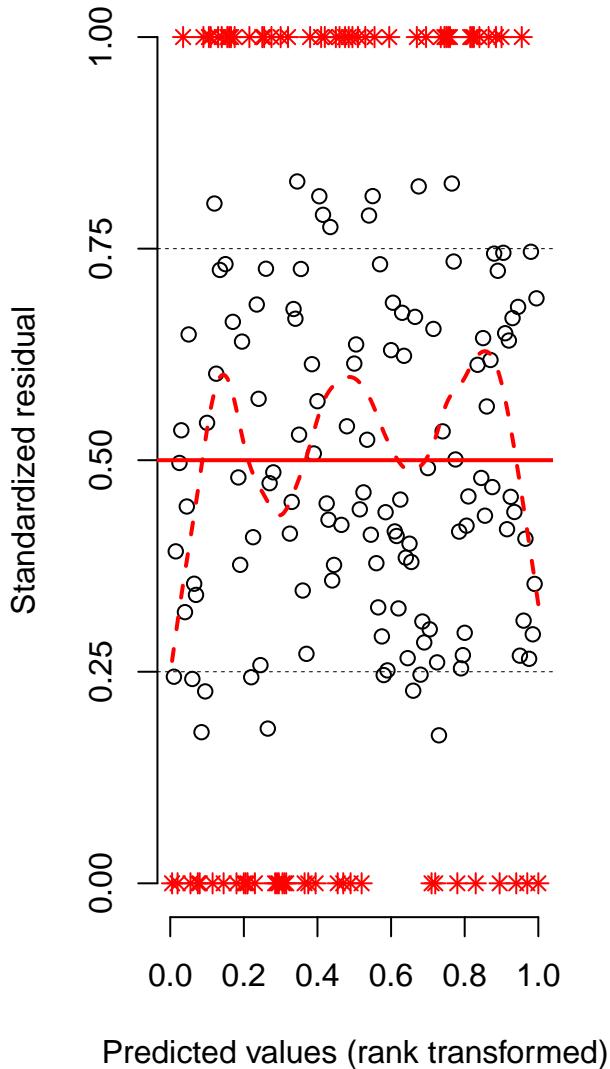
Simulated values, red line = fitted model. p-value (two.sided) = 0.1

DHARMA scaled residual plots

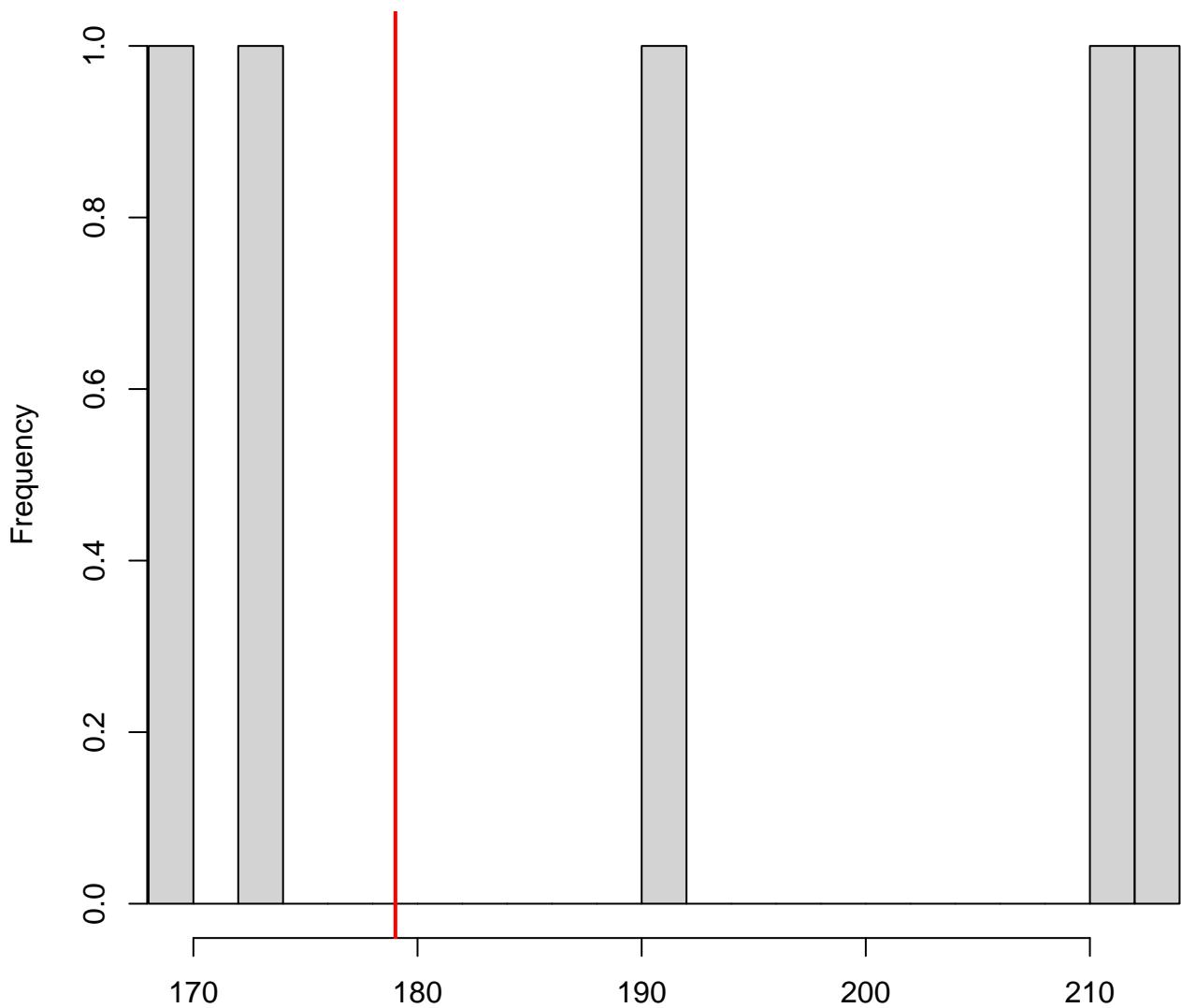
QQ plot residuals



Residual vs. predicted lines should match

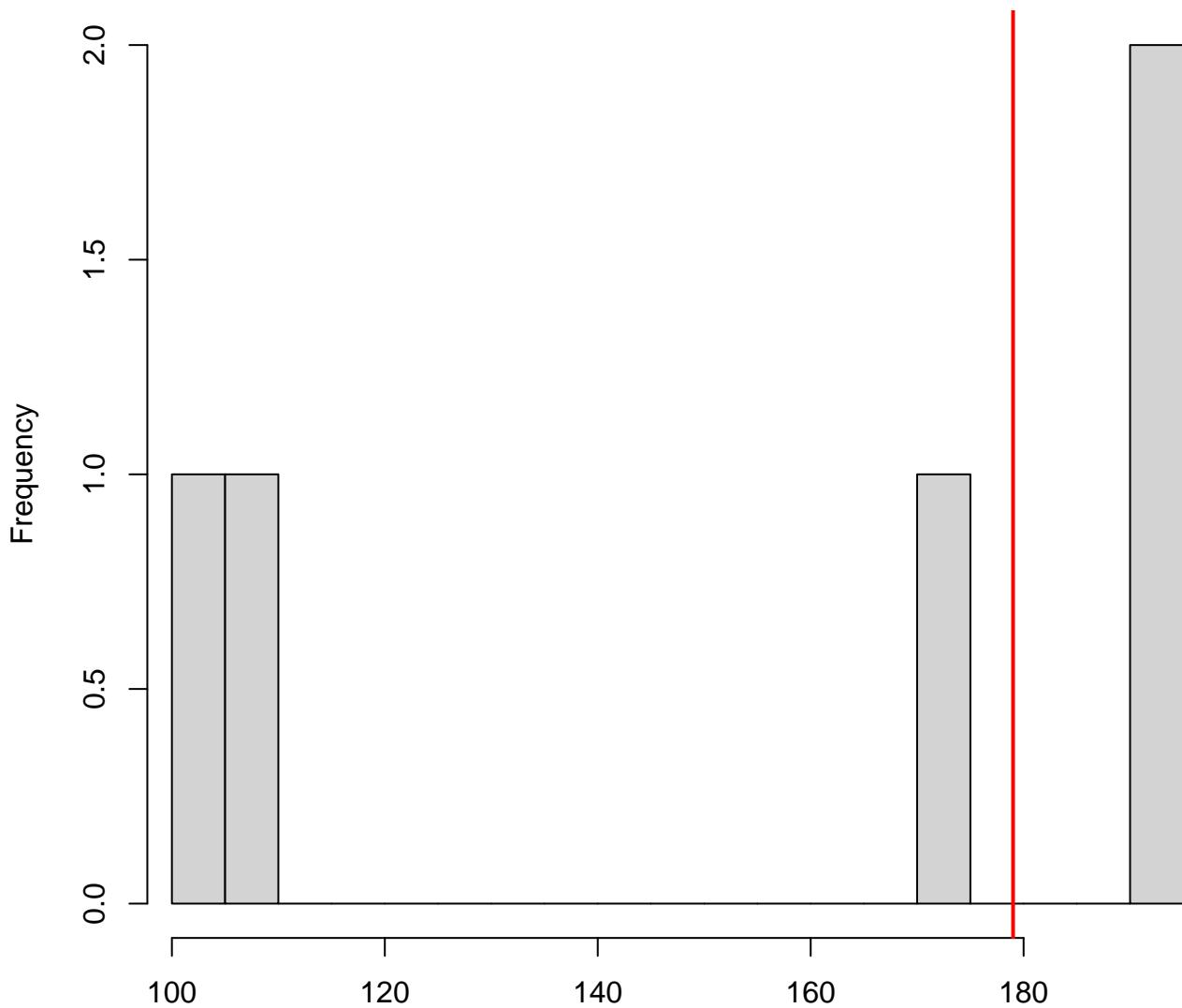


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



Simulated values, red line = fitted model. p-value (two.sided) = 0.8

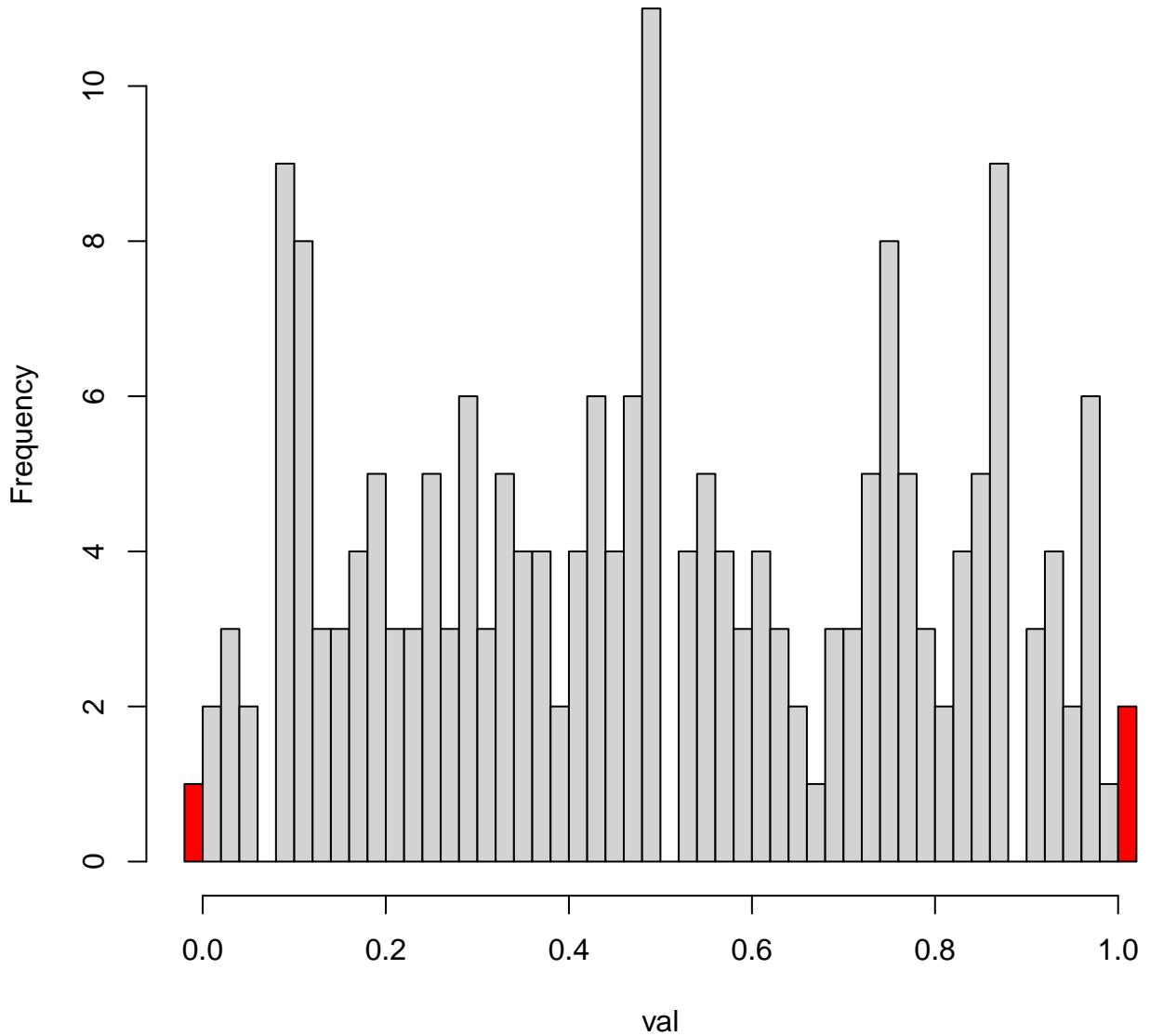
DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



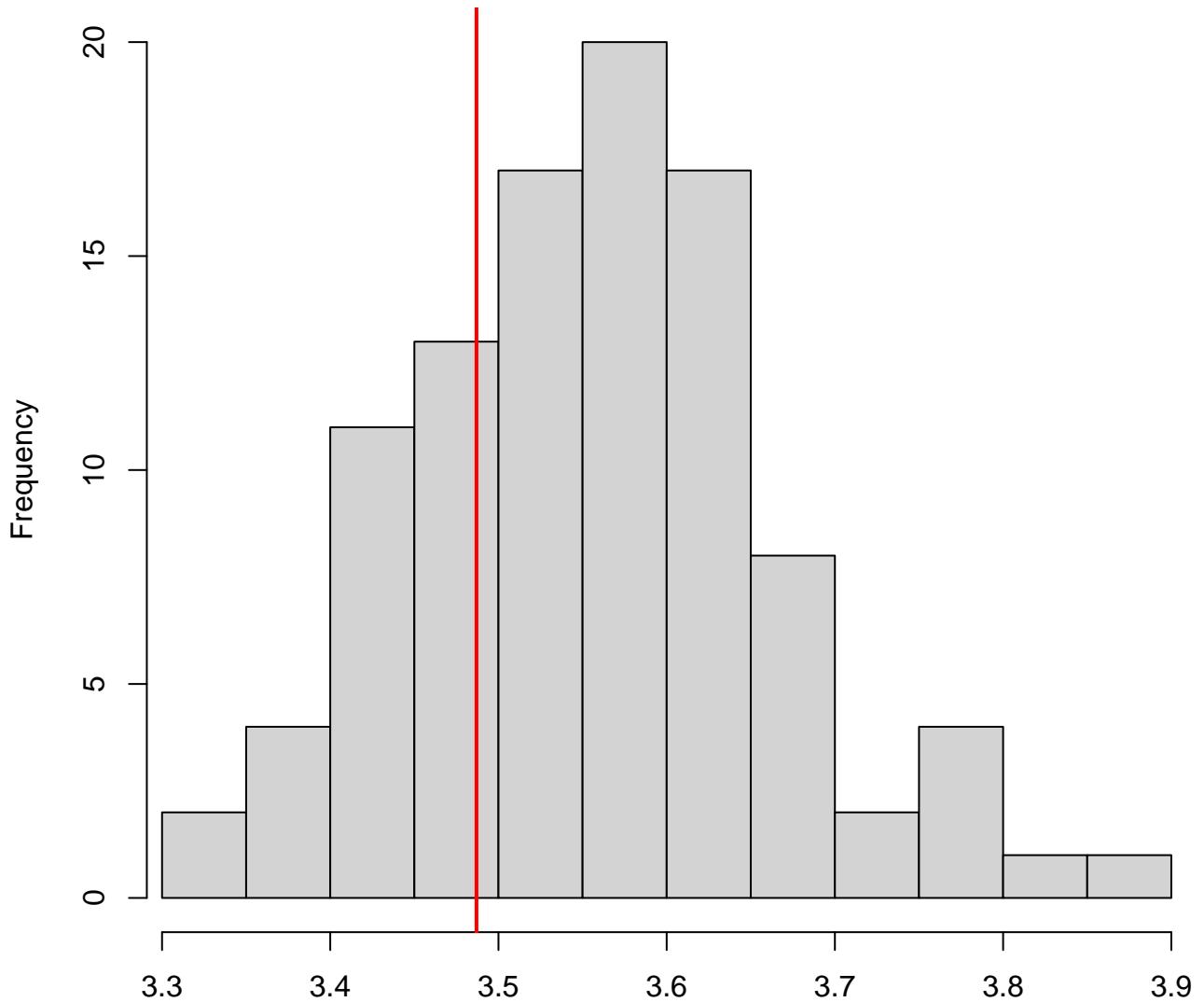
Simulated values, red line = fitted model. p-value (two.sided) = 0.8

Hist of DHARMA residuals

Outliers are marked red

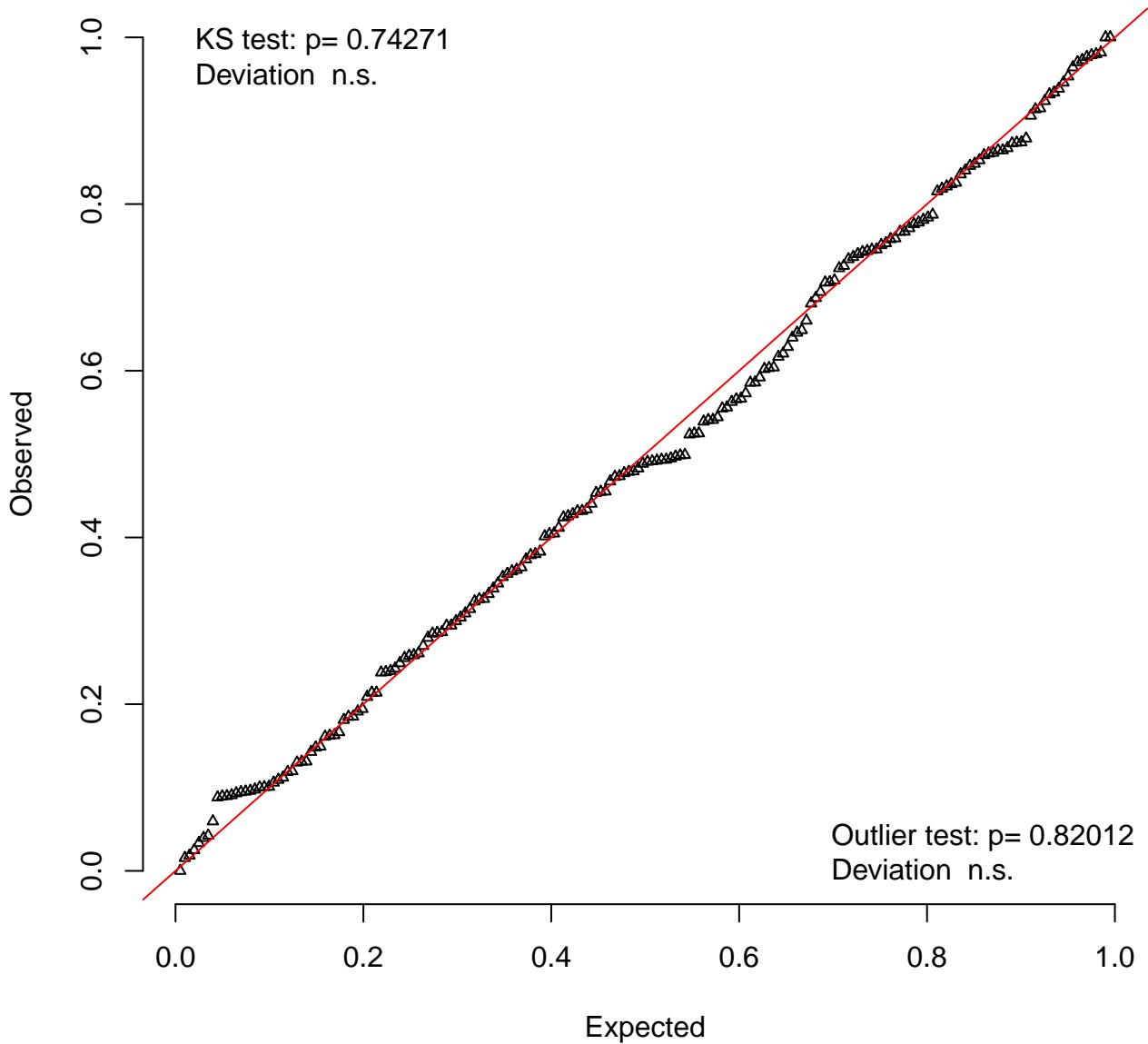


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

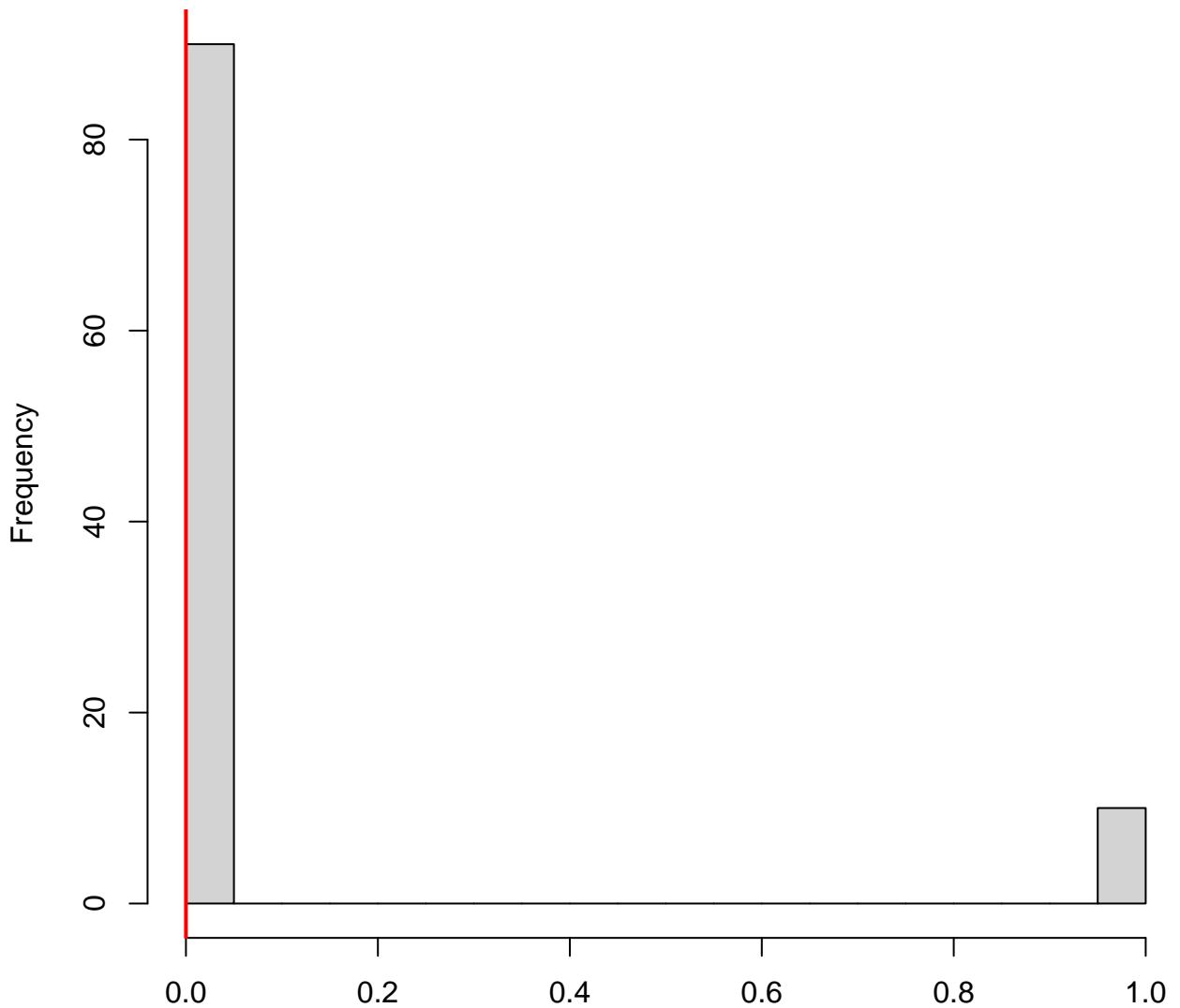


Simulated values, red line = fitted model. p-value (two.sided) = 0.54

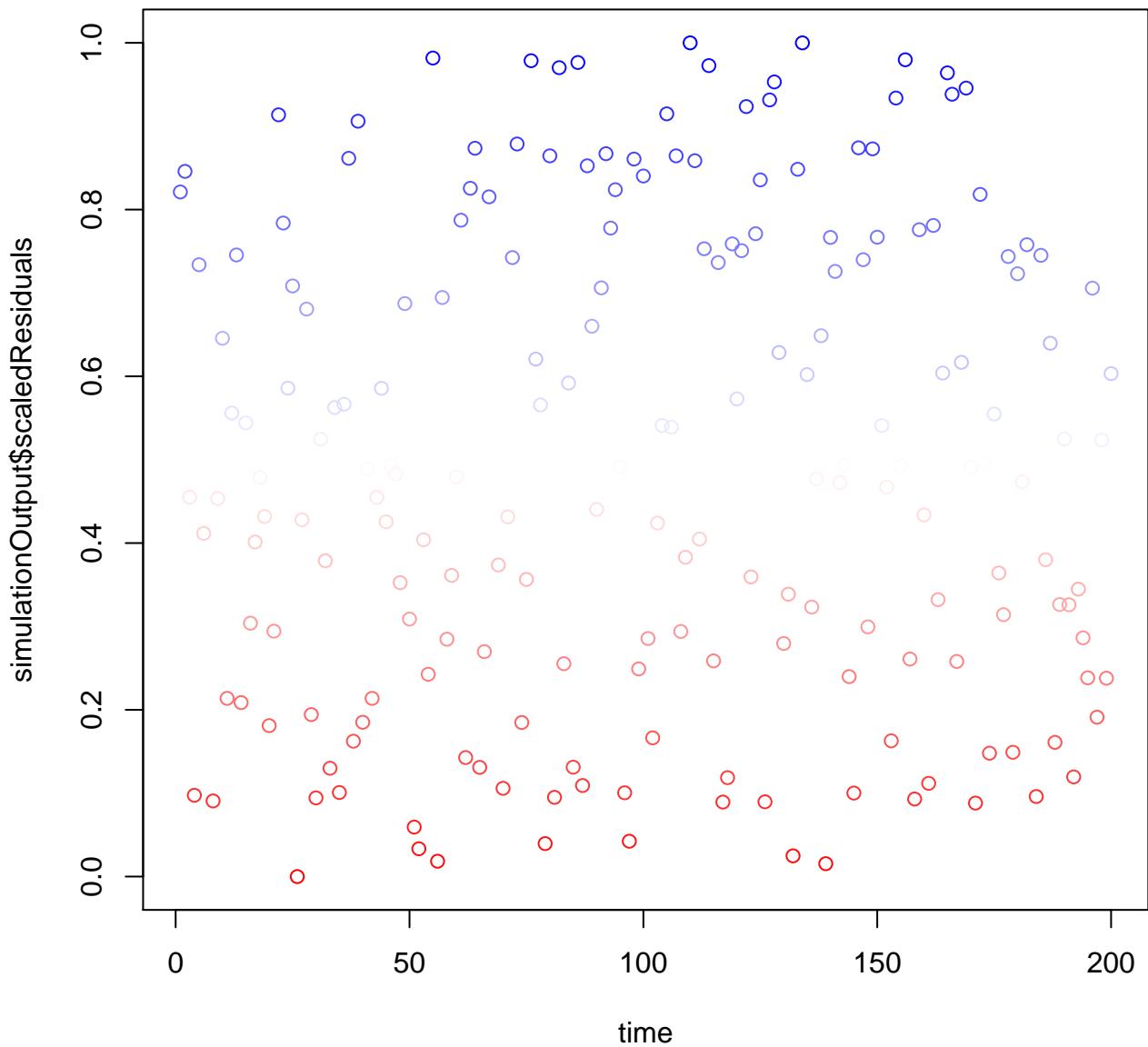
QQ plot residuals

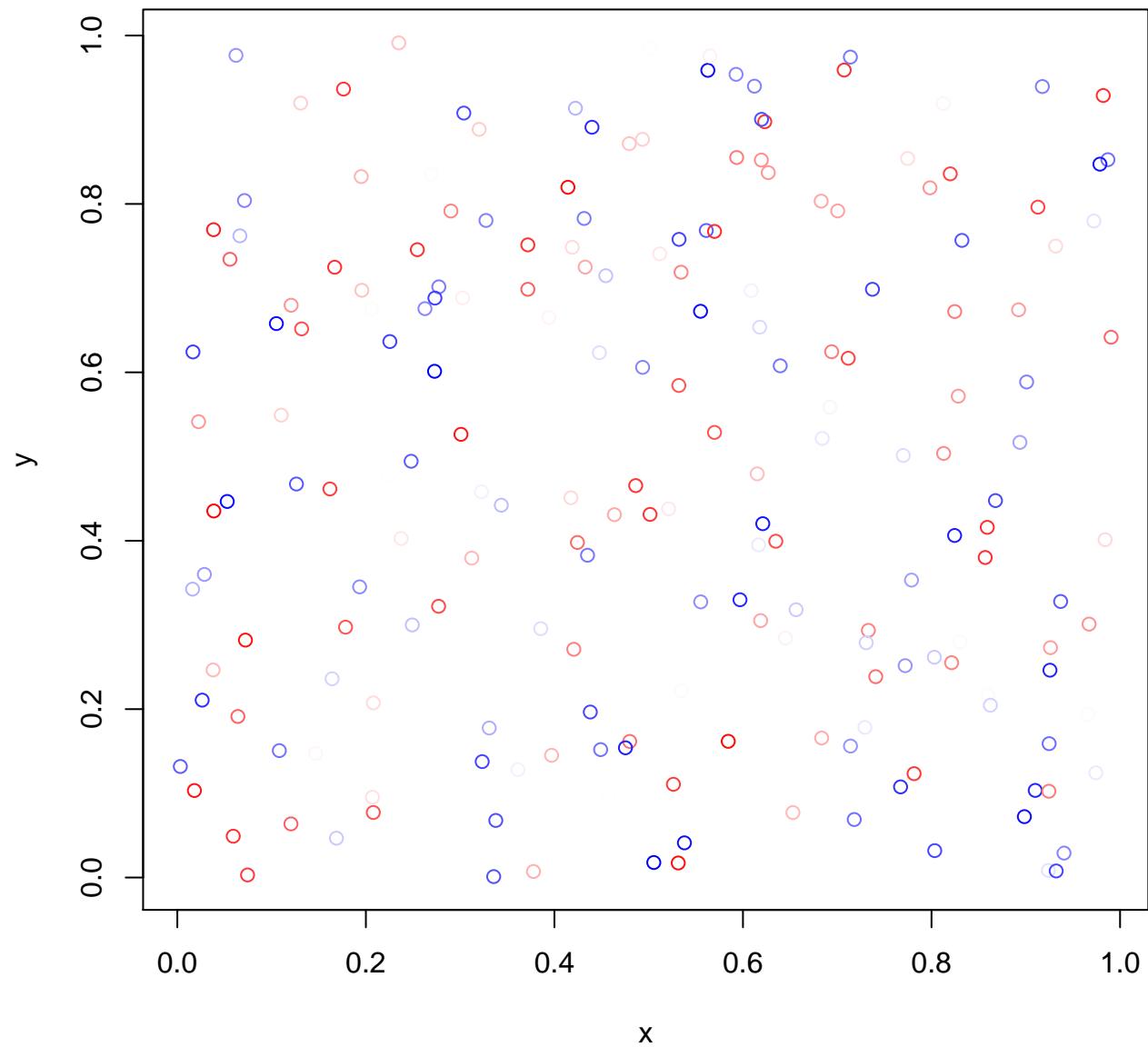


DHARMA zero-inflation test via comparison to expected zeros with simulation under H0 = fitted model

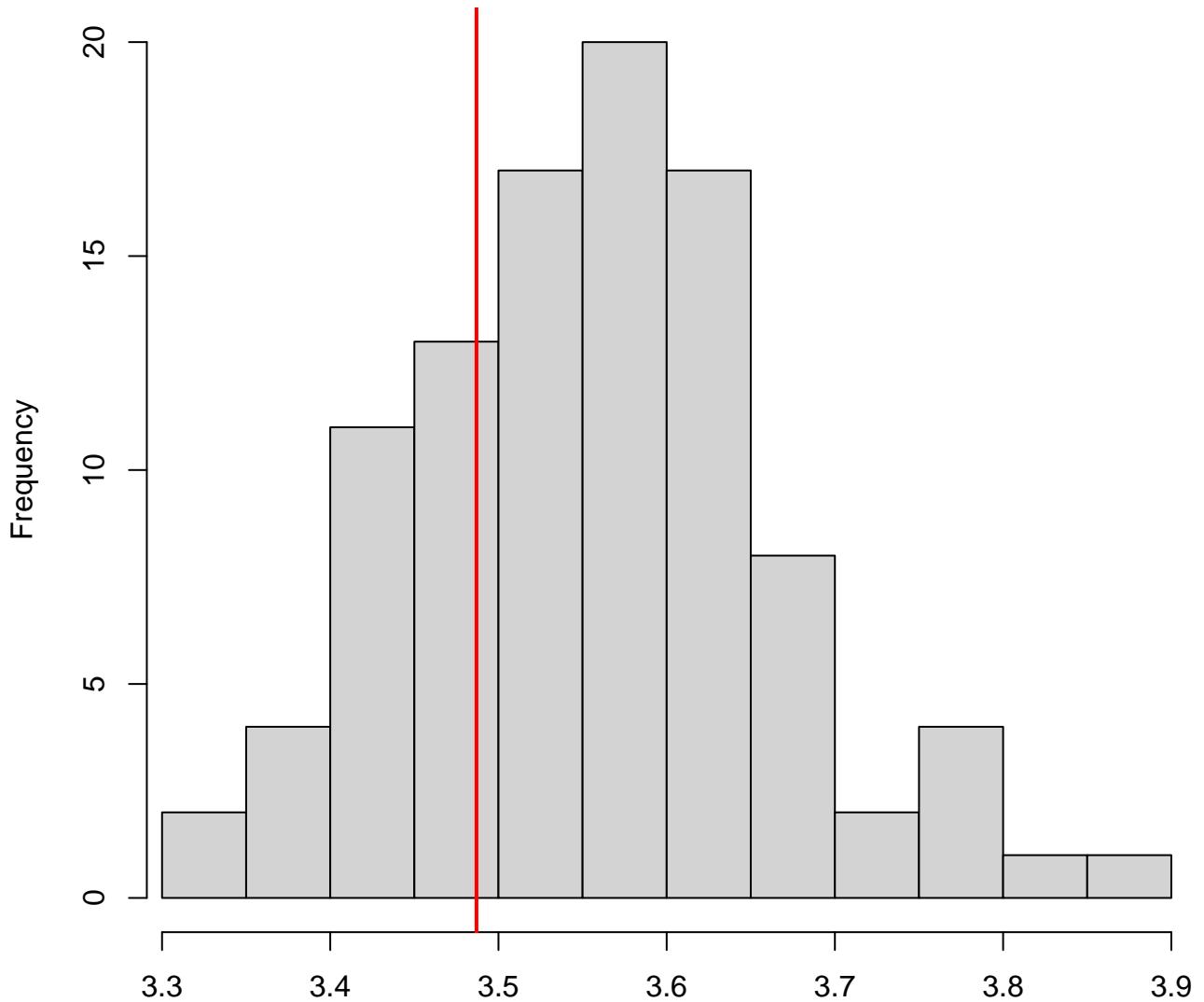


Simulated values, red line = fitted model. p-value (two.sided) = 1



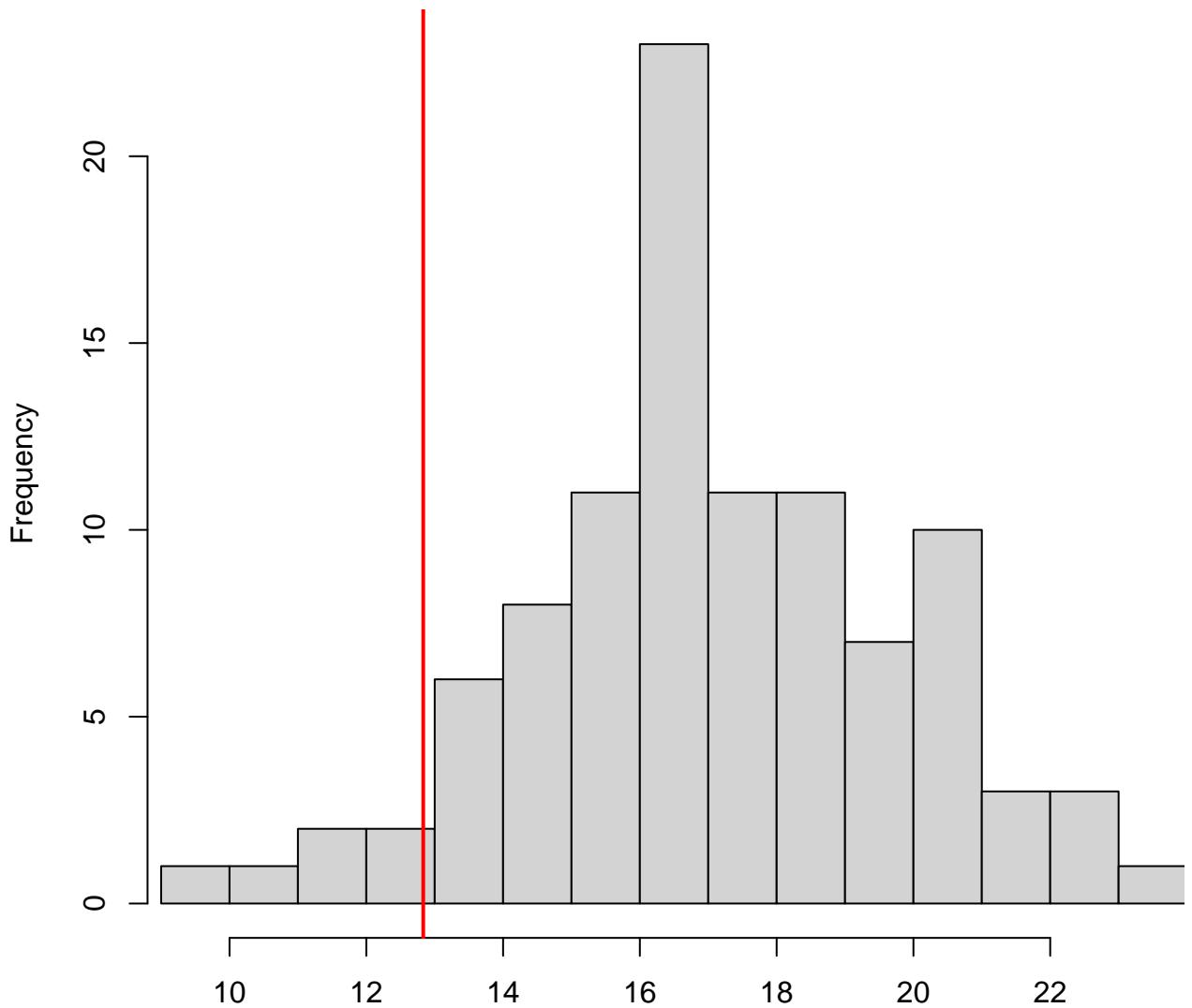


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.54

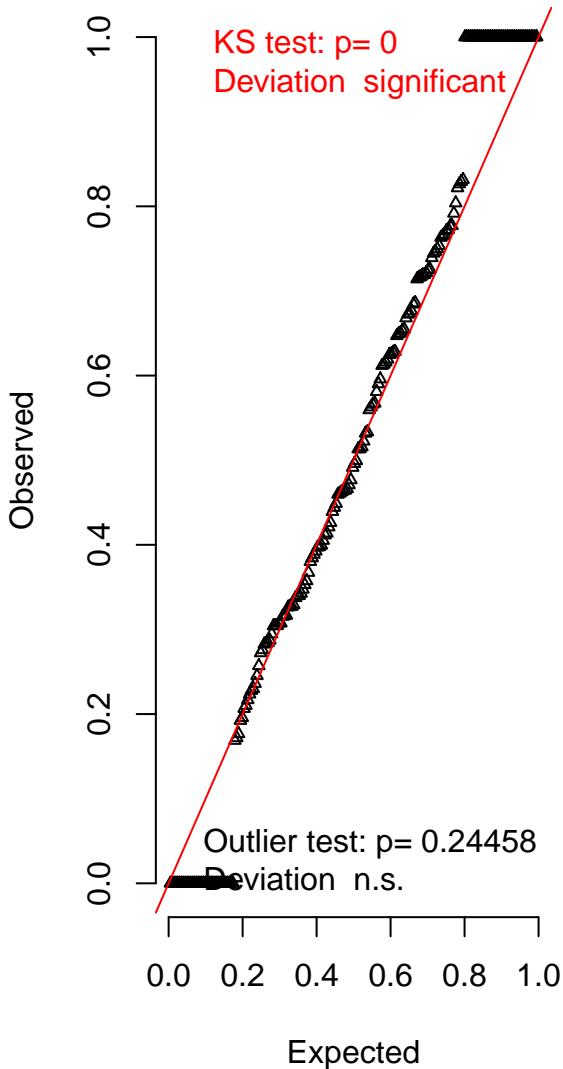
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



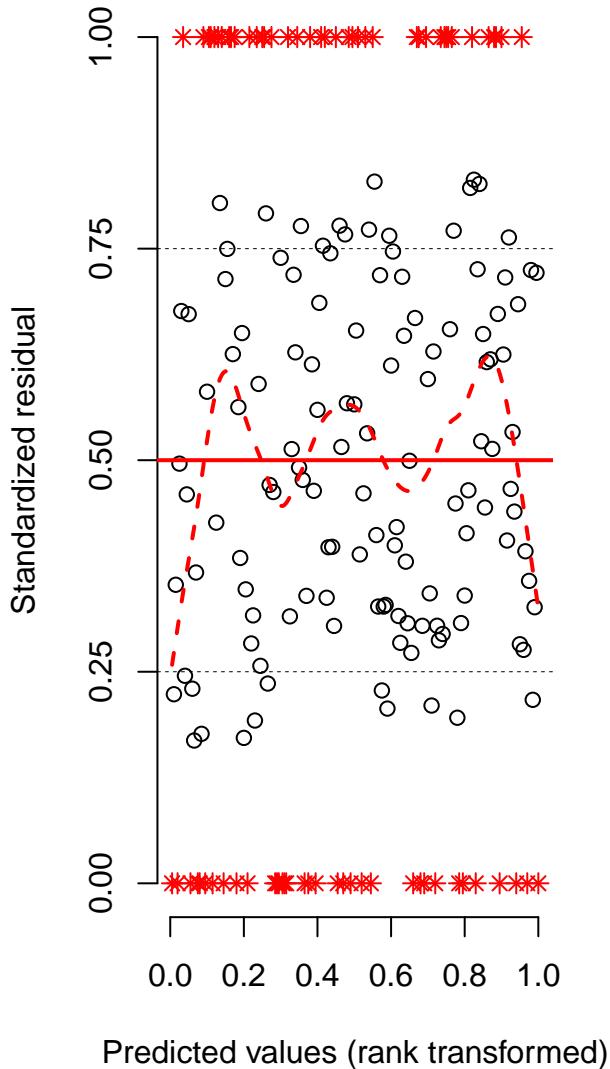
Simulated values, red line = fitted model. p-value (two.sided) = 0.12

DHARMA scaled residual plots

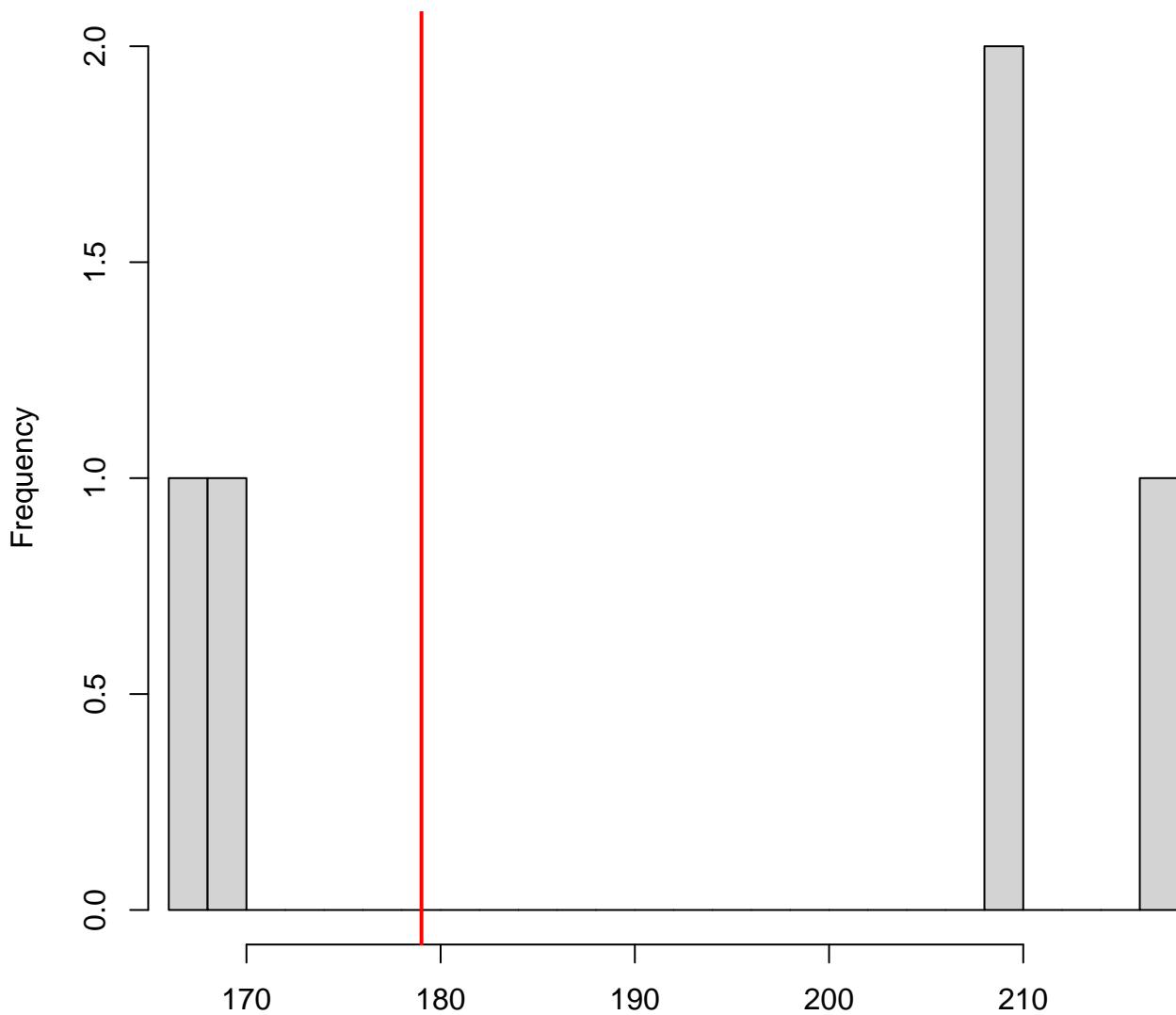
QQ plot residuals



Residual vs. predicted lines should match

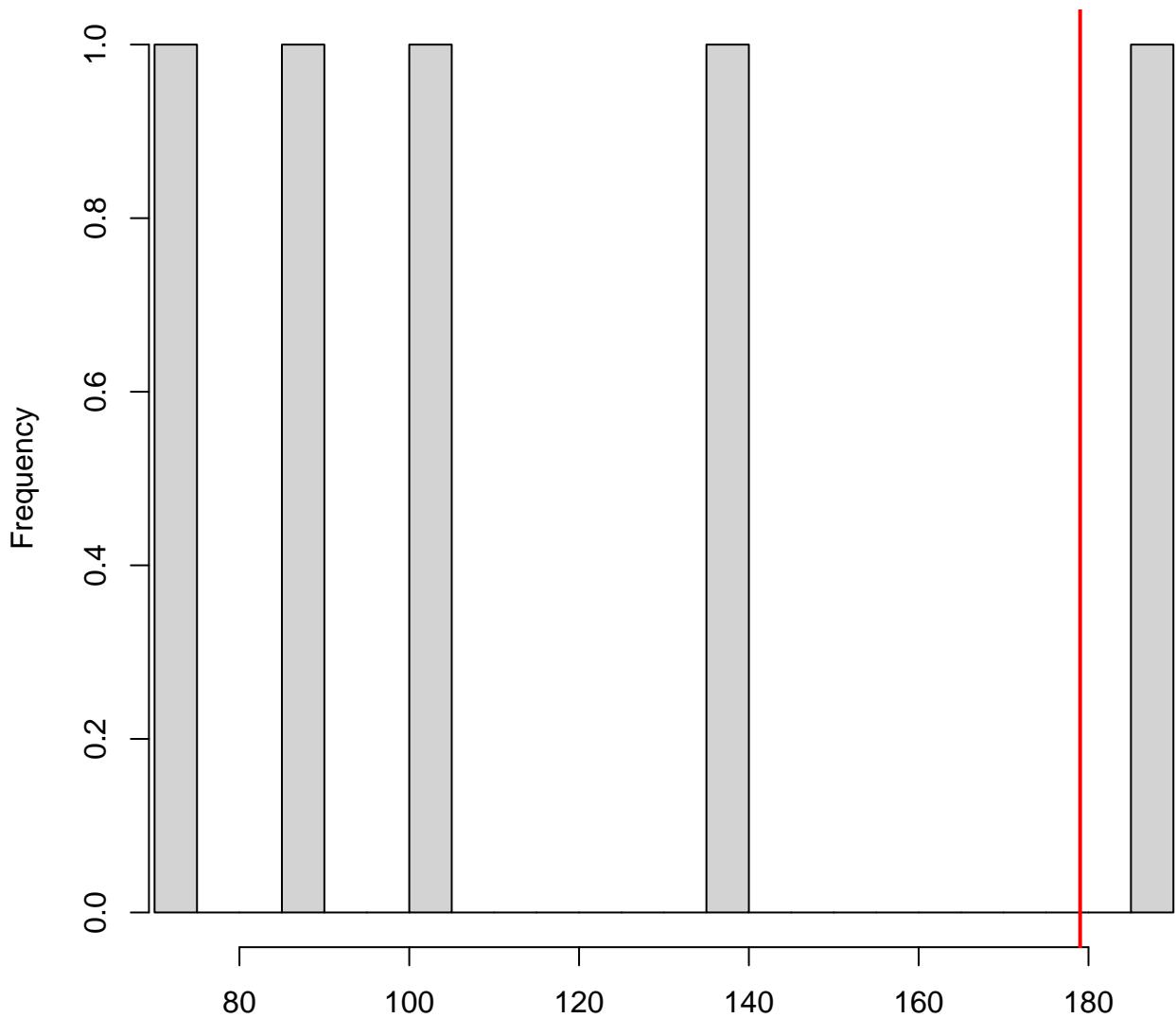


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



Simulated values, red line = fitted model. p-value (two.sided) = 0.8

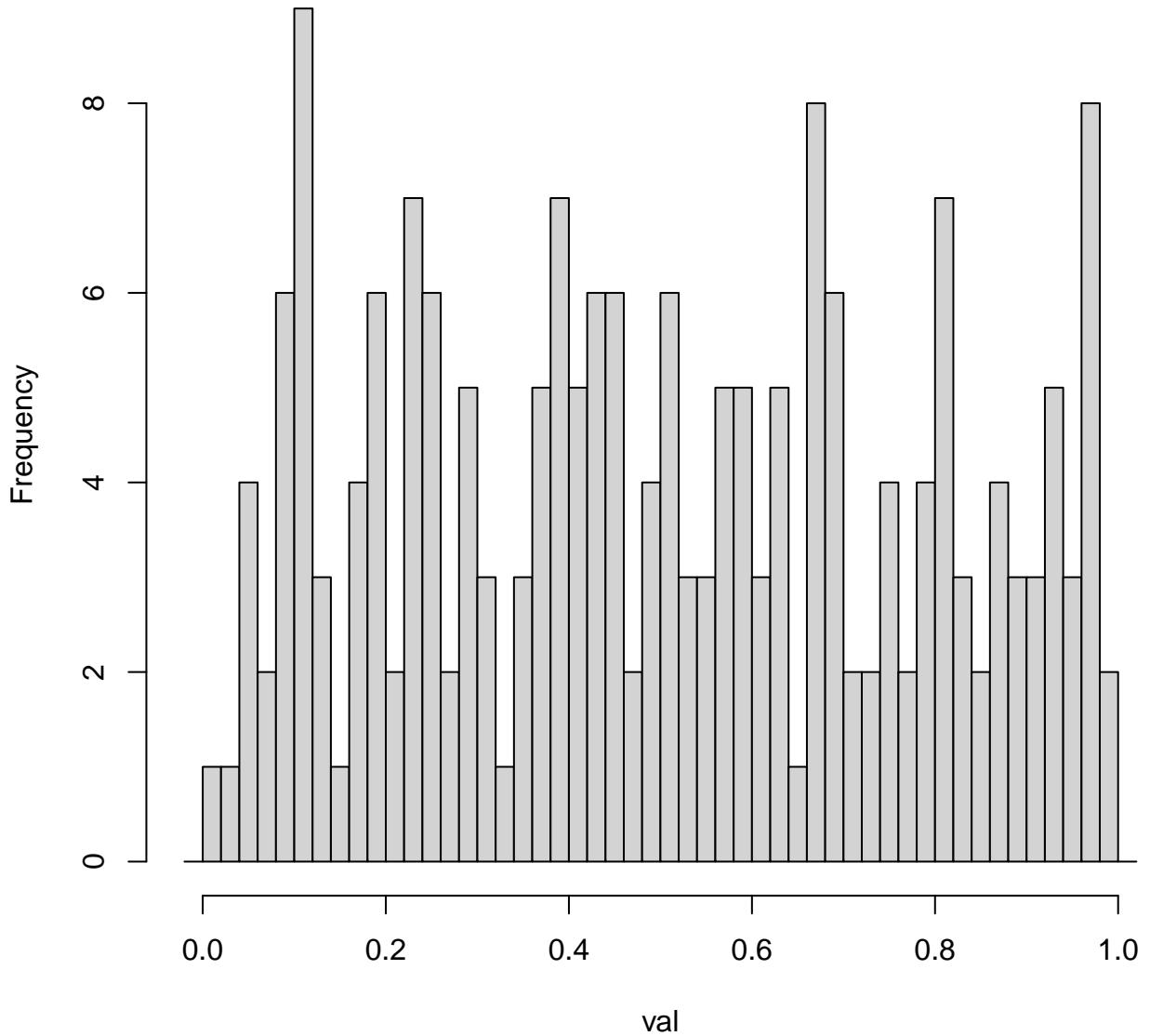
DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



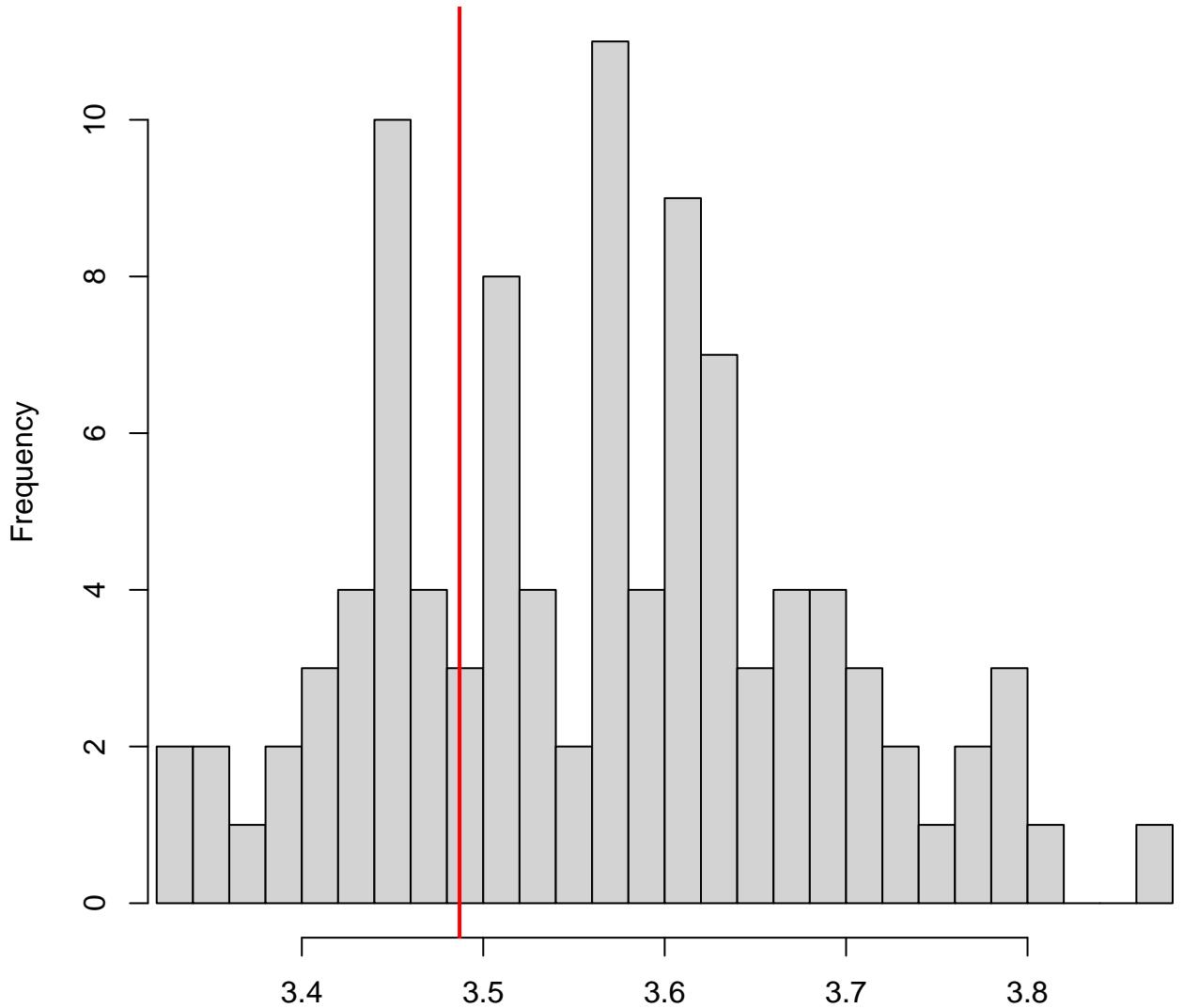
Simulated values, red line = fitted model. p-value (two.sided) = 0.4

Hist of DHARMa residuals

Outliers are marked red

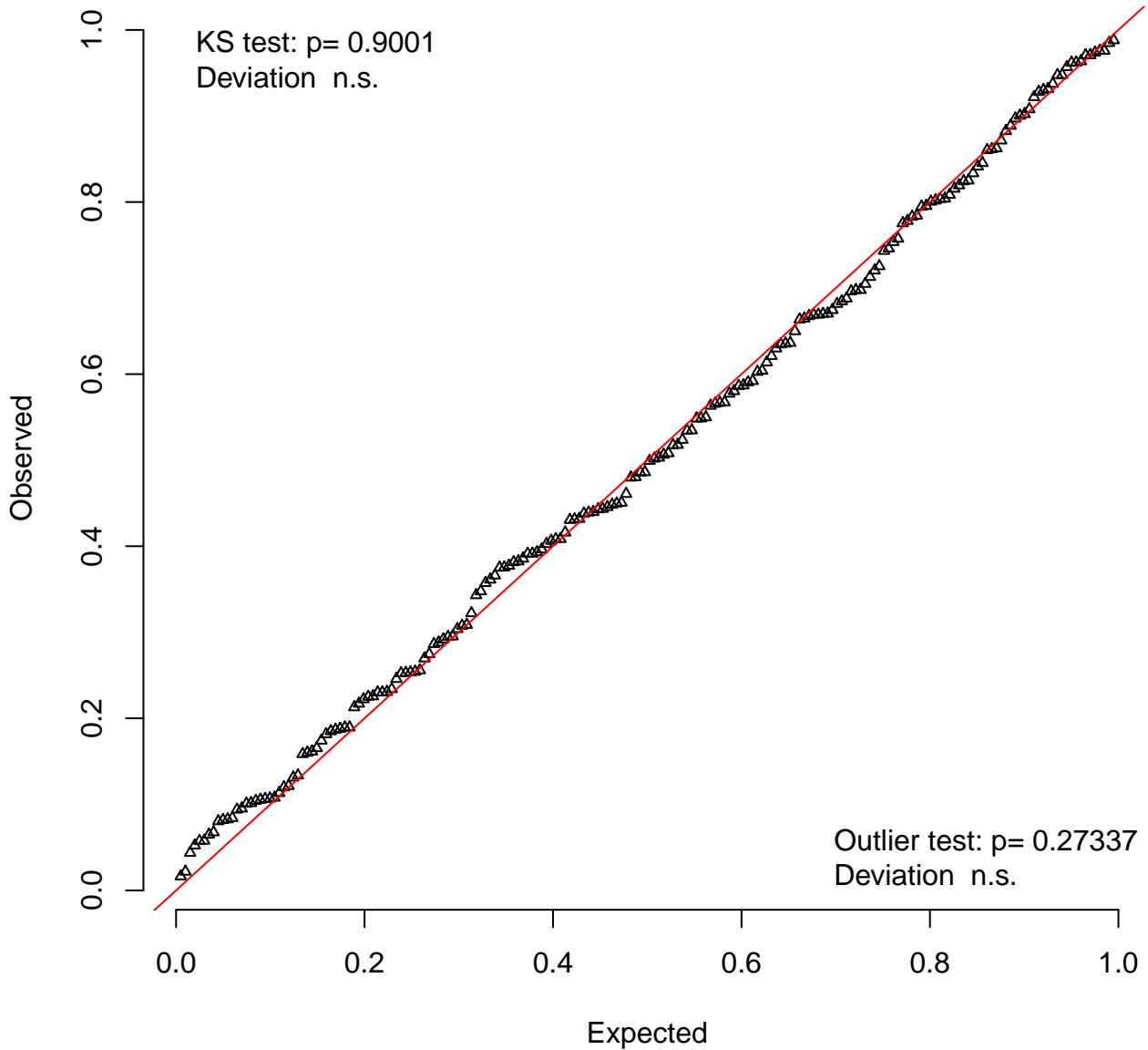


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

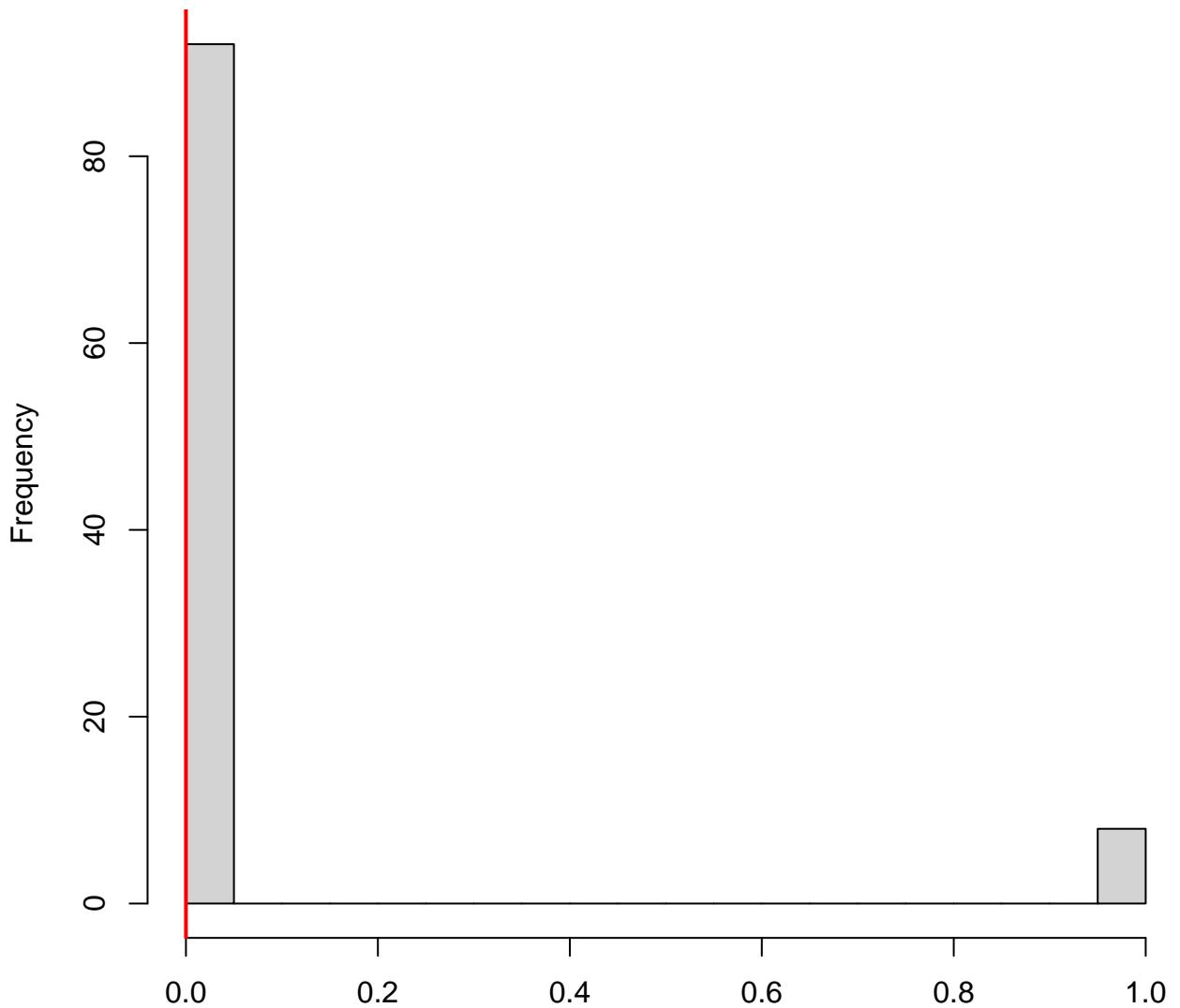


Simulated values, red line = fitted model. p-value (two.sided) = 0.56

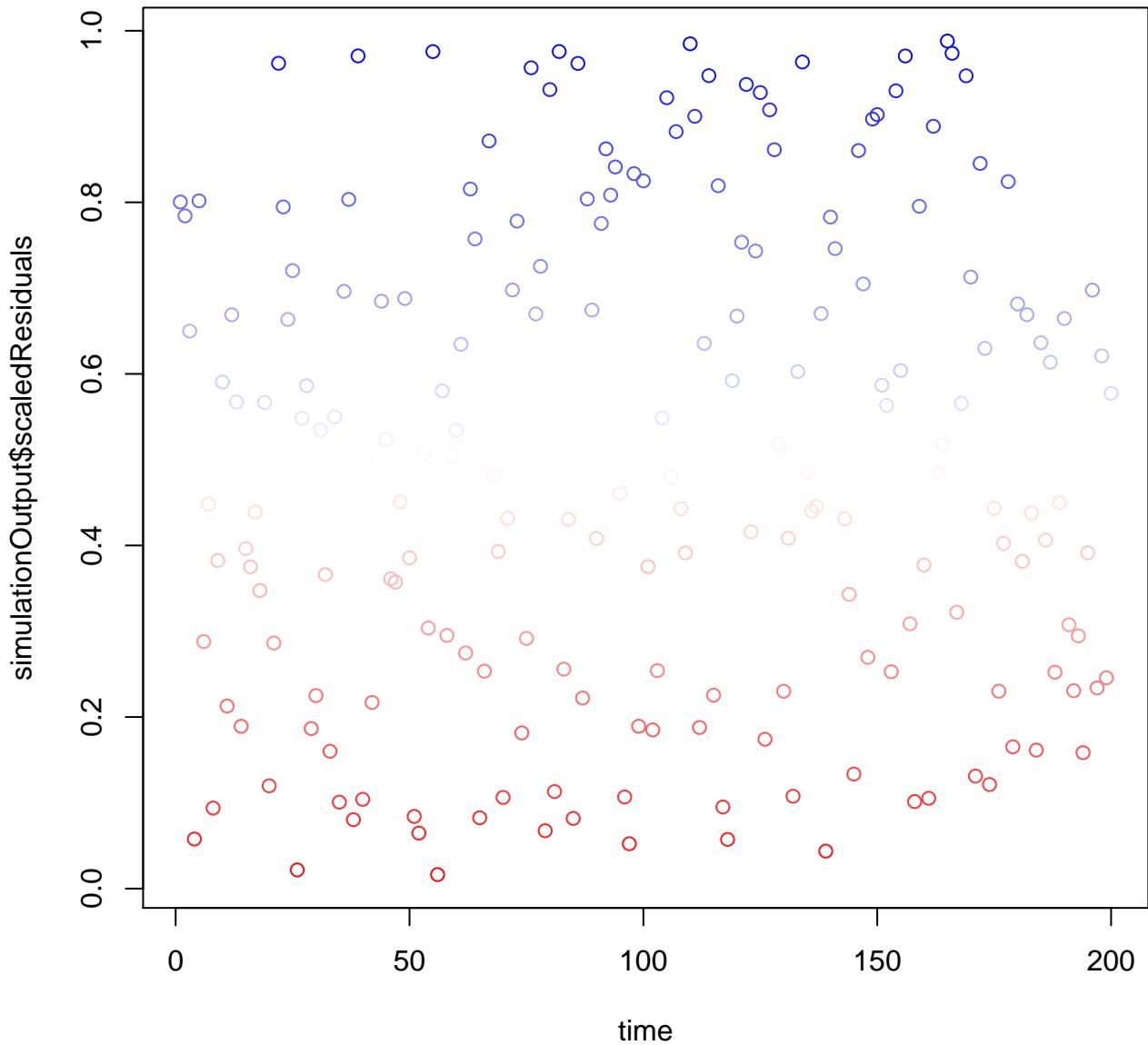
QQ plot residuals

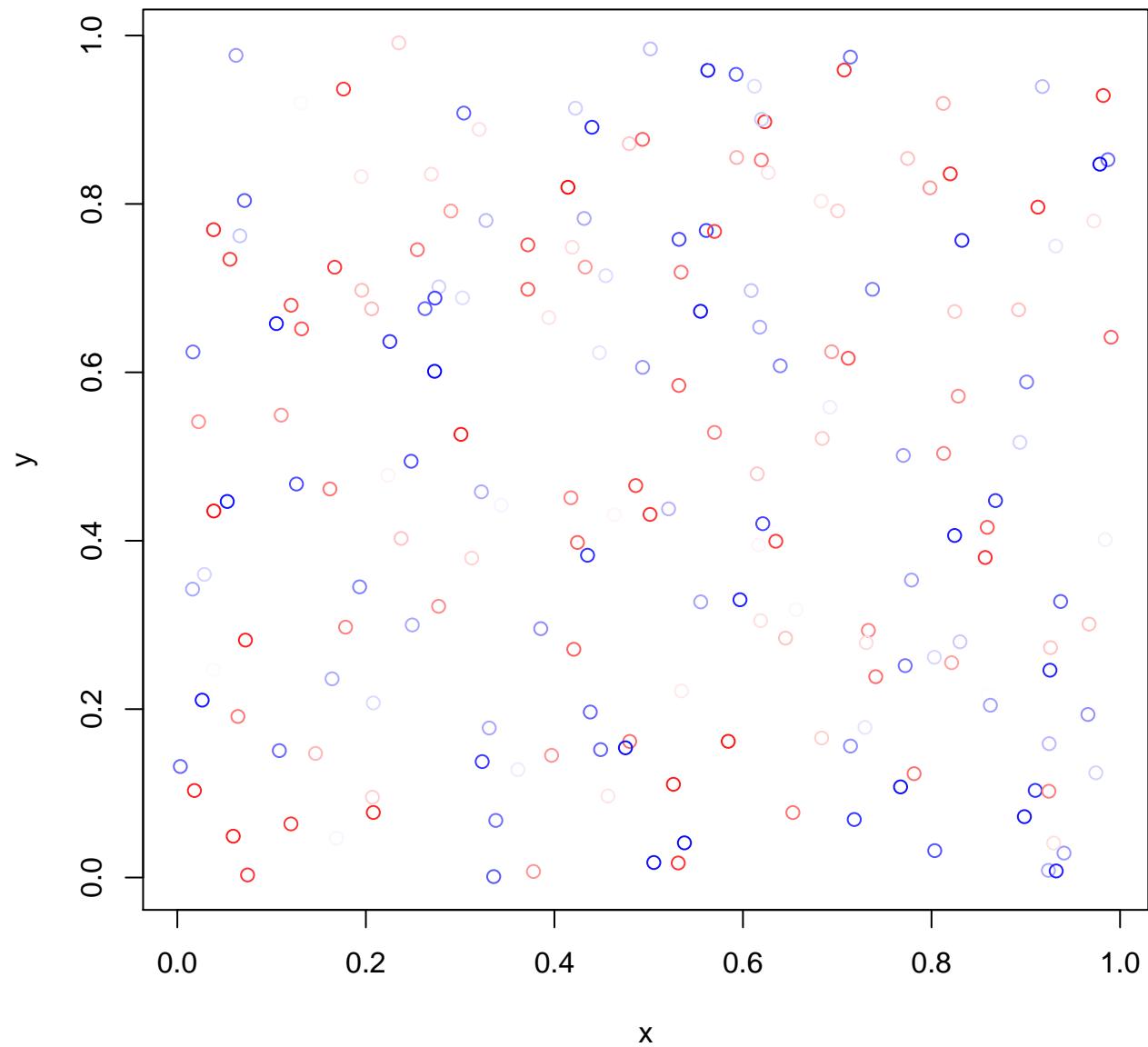


DHARMA zero-inflation test via comparison to expected zeros with simulation under $H_0 =$ fitted model

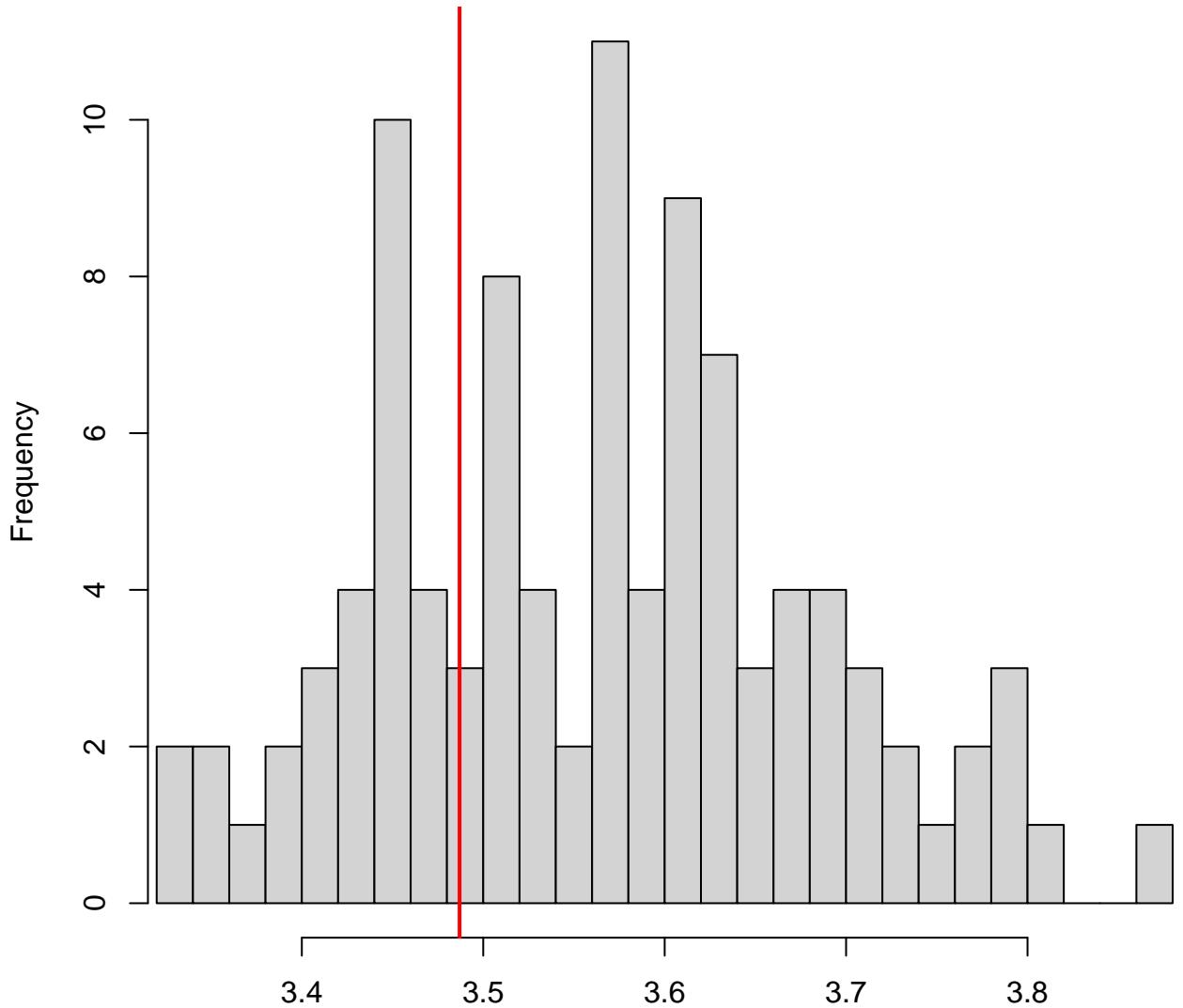


Simulated values, red line = fitted model. p-value (two.sided) = 1



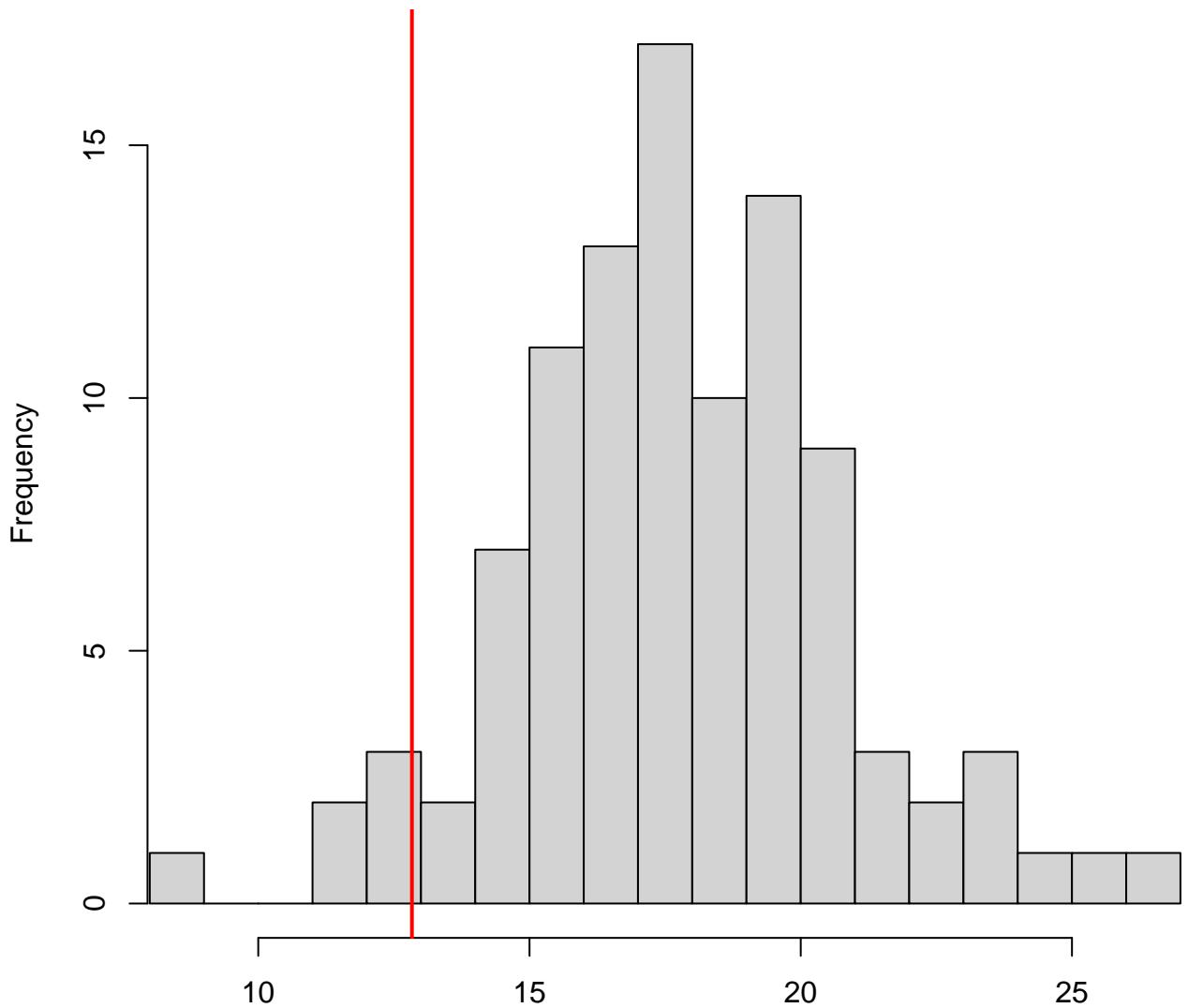


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.56

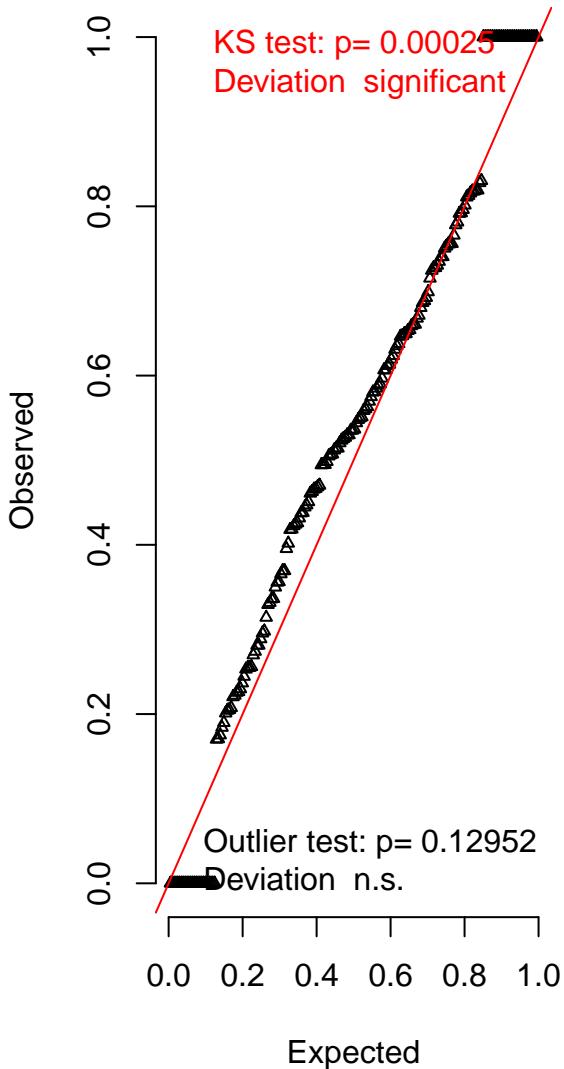
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



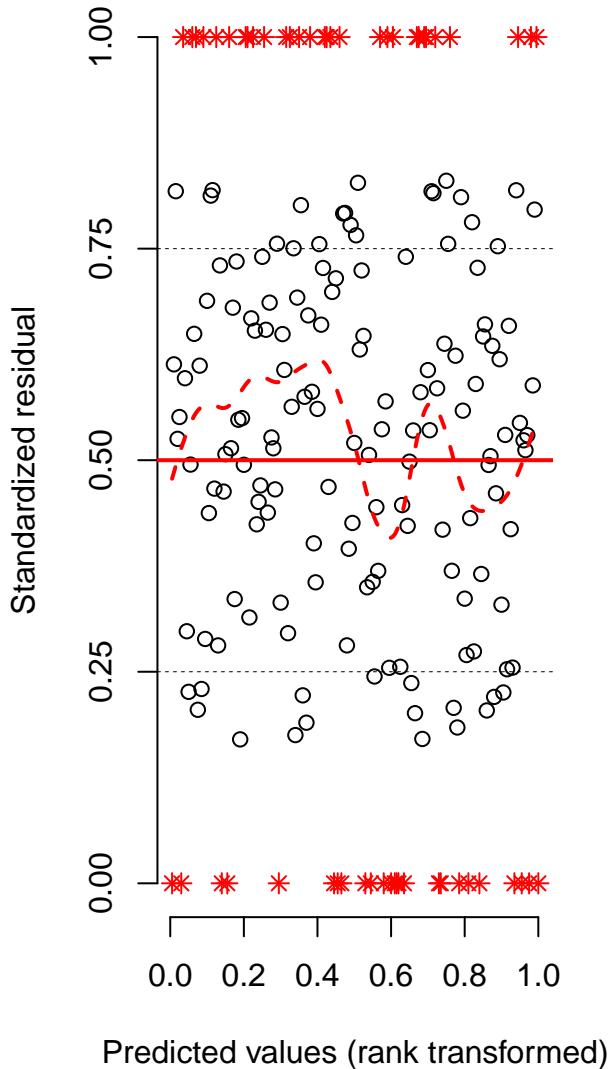
Simulated values, red line = fitted model. p-value (two.sided) = 0.1

DHARMA scaled residual plots

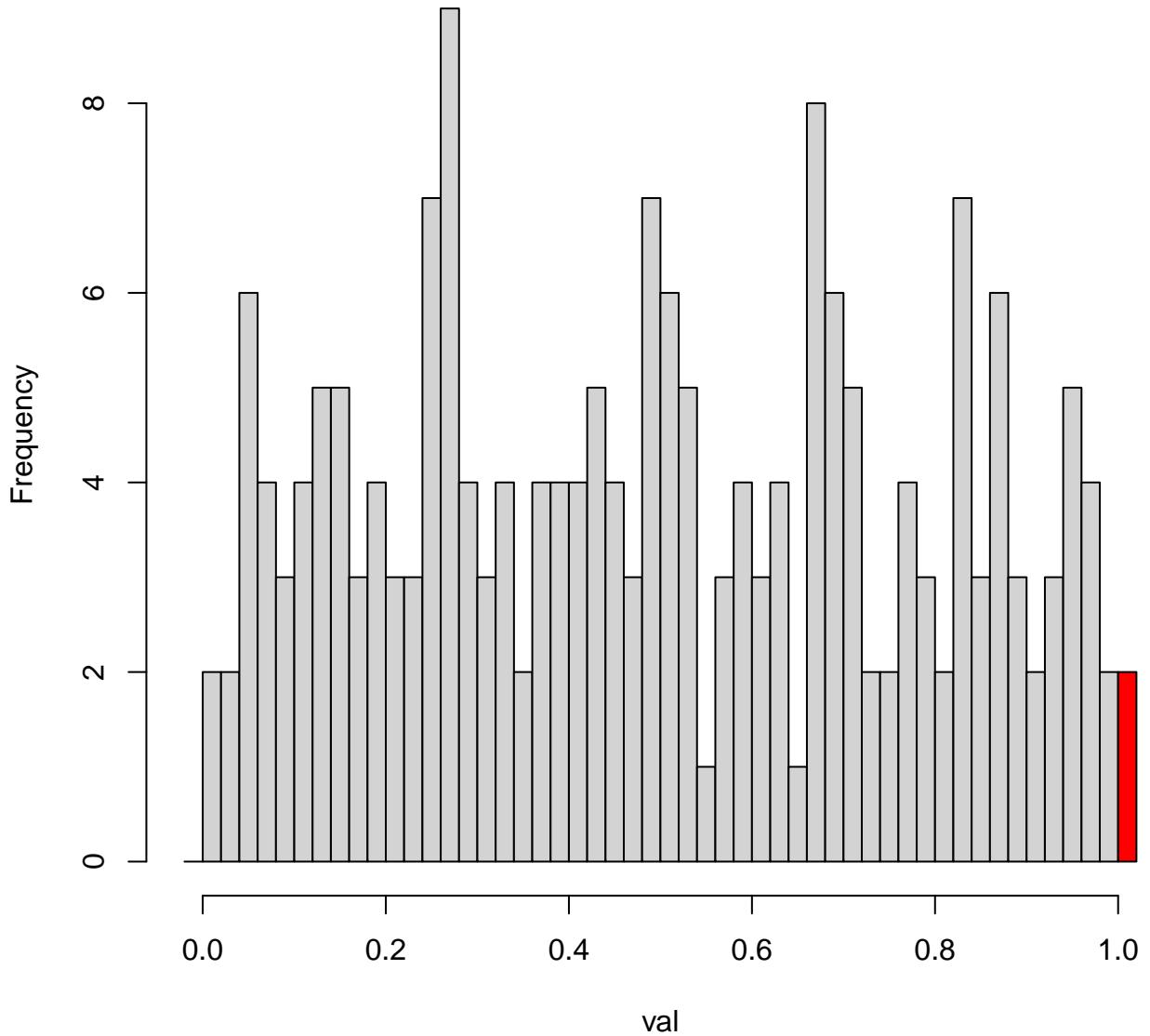
QQ plot residuals



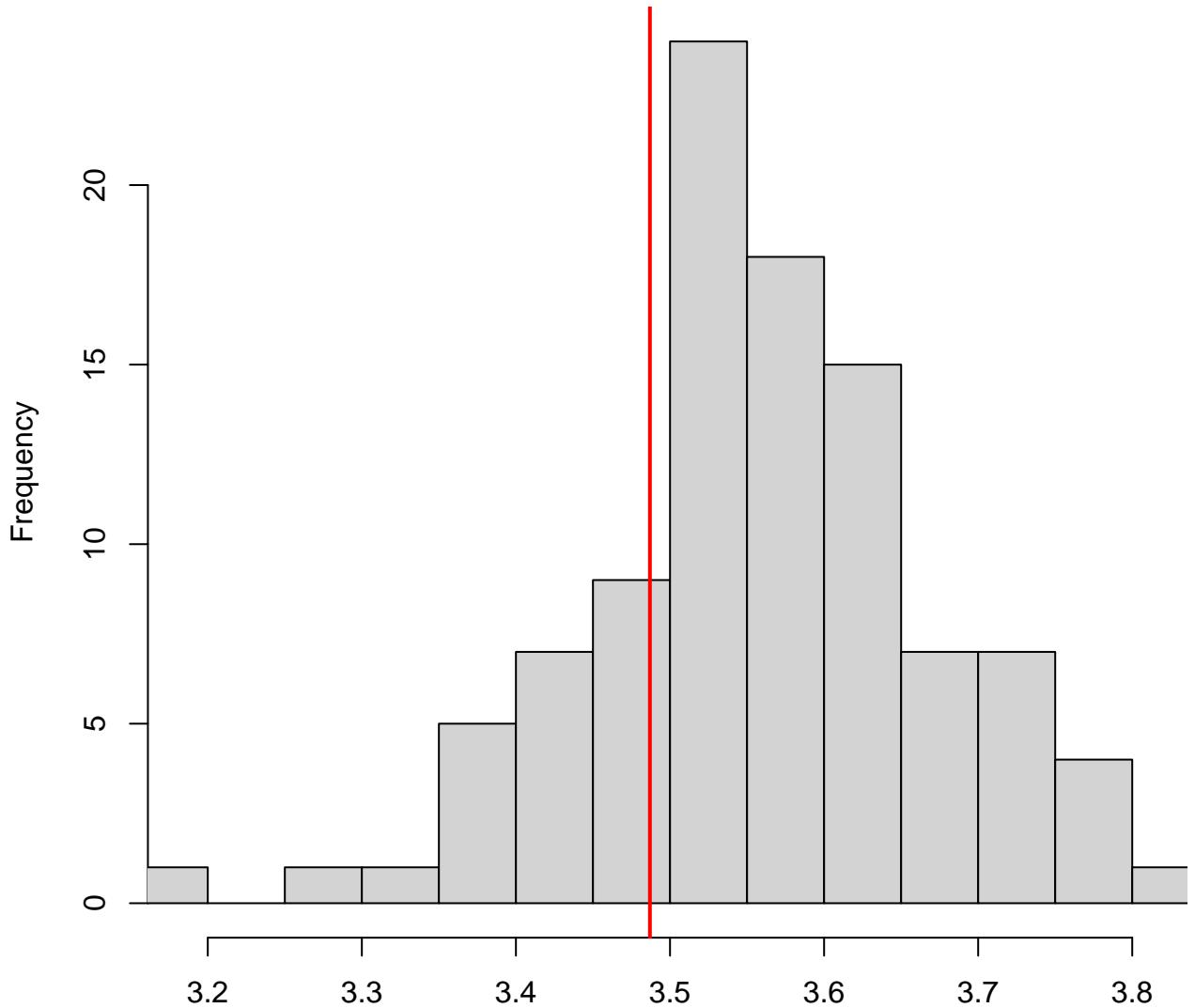
Residual vs. predicted lines should match



Hist of DHARMa residuals
Outliers are marked red

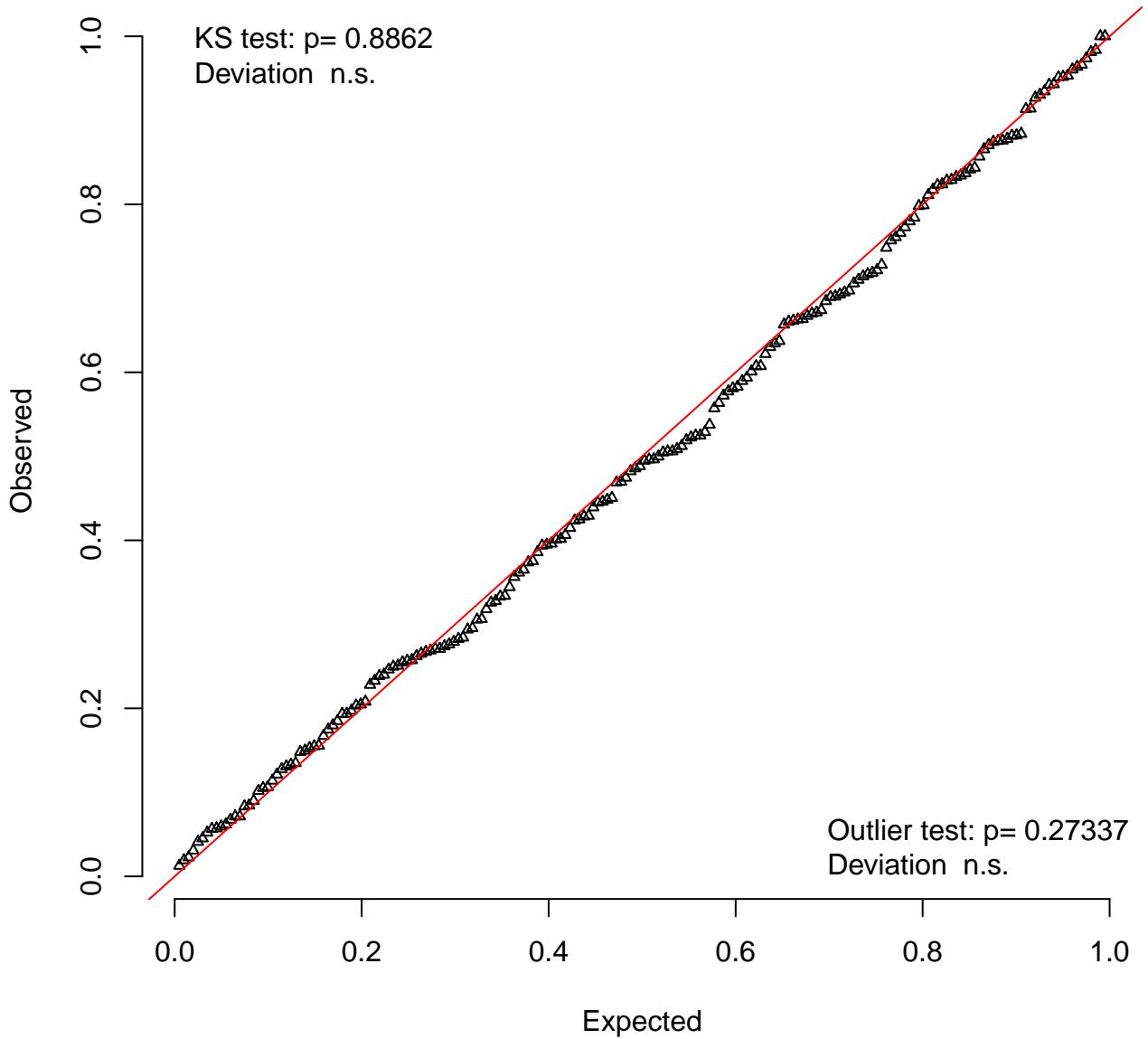


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

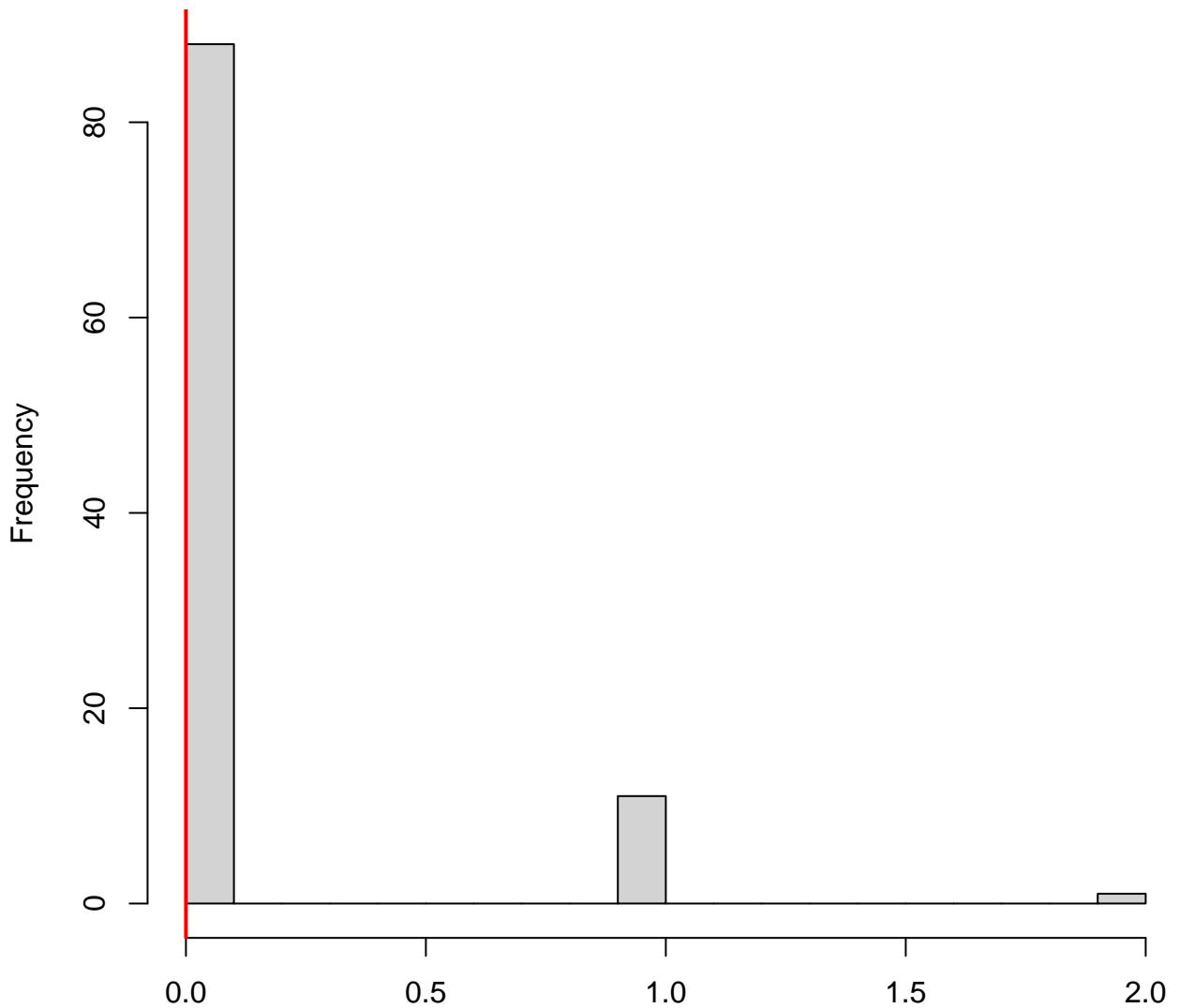


Simulated values, red line = fitted model. p-value (two.sided) = 0.42

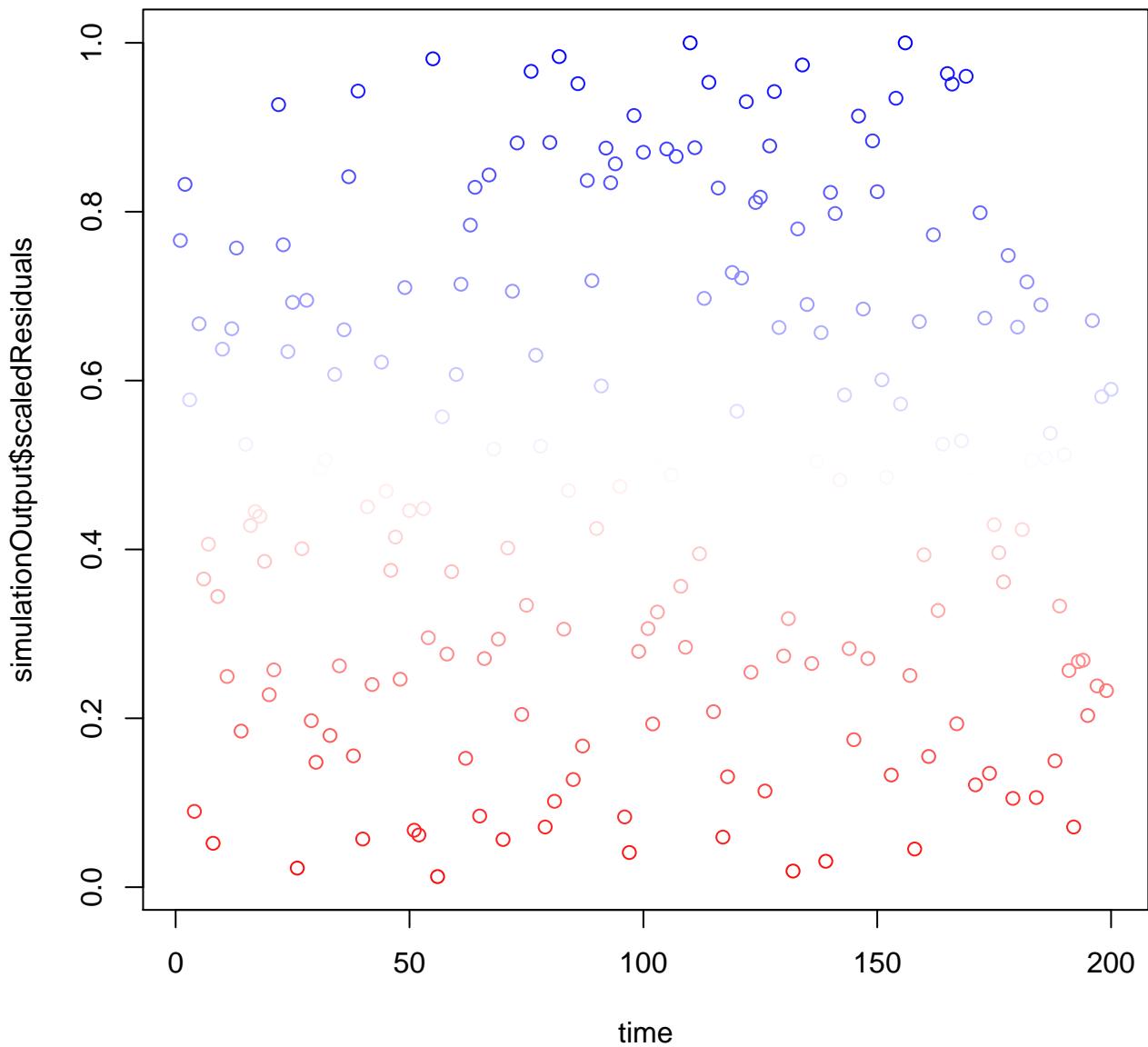
QQ plot residuals

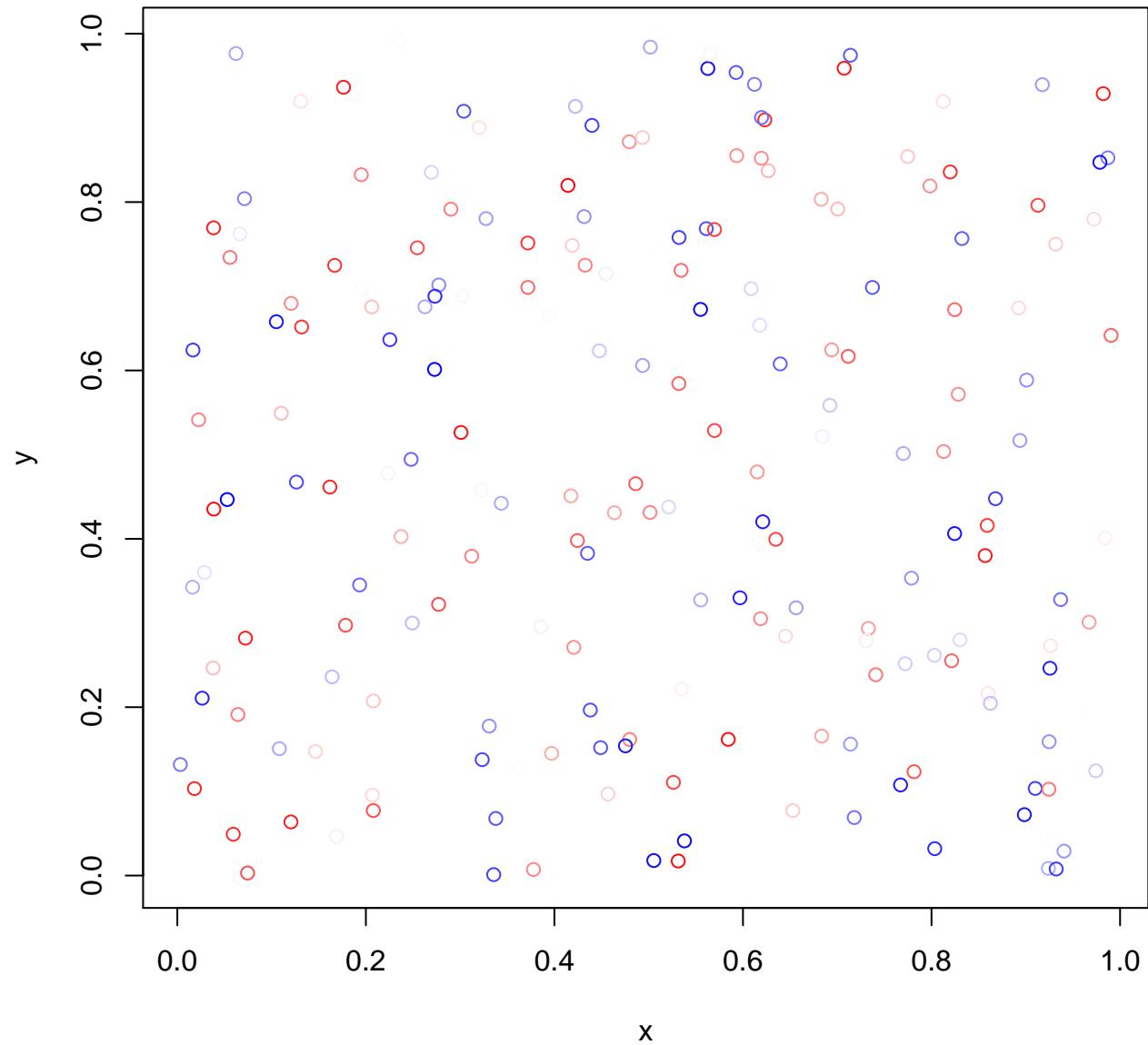


DHARMA zero-inflation test via comparison to expected zeros with simulation under H0 = fitted model

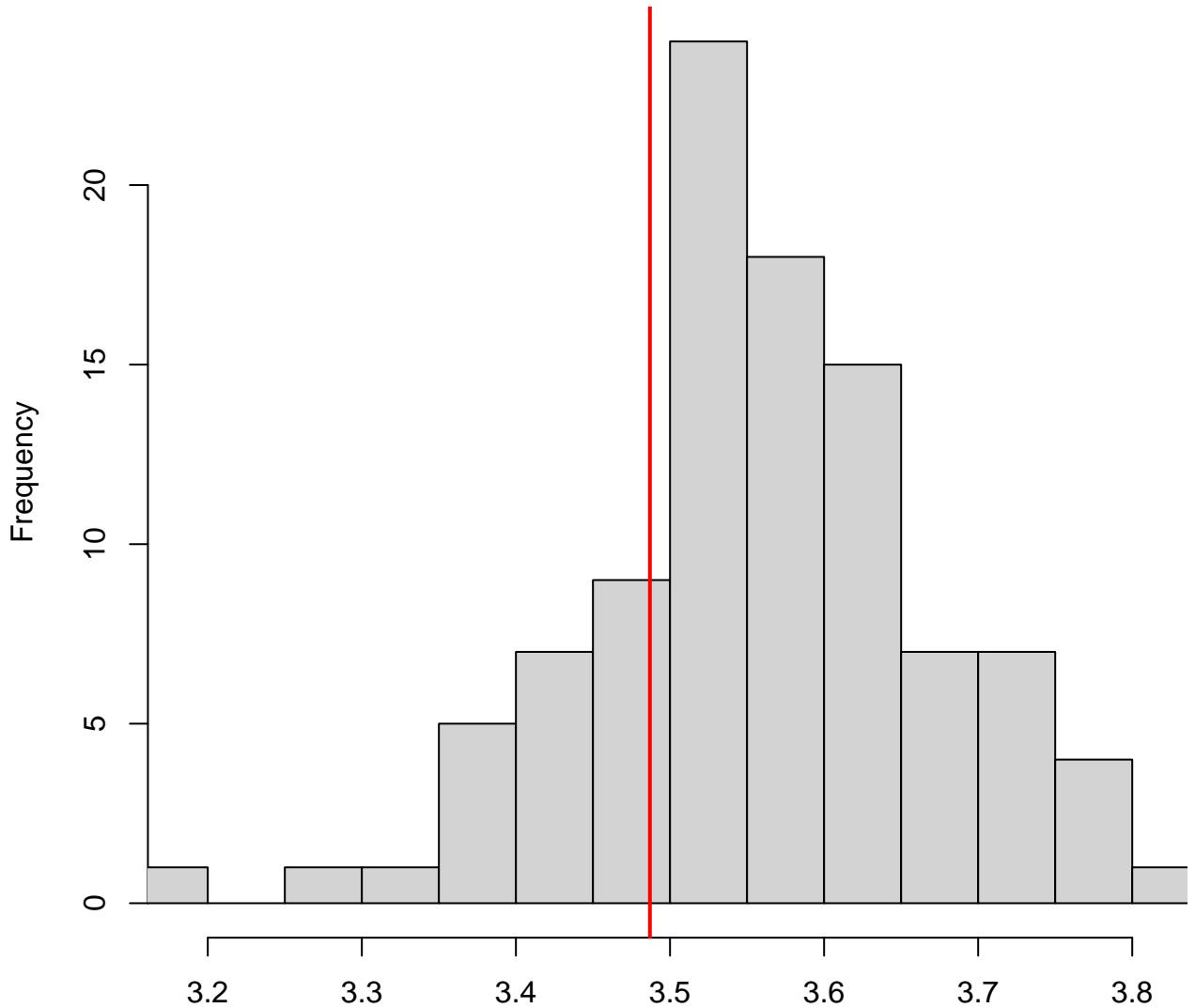


Simulated values, red line = fitted model. p-value (two.sided) = 1



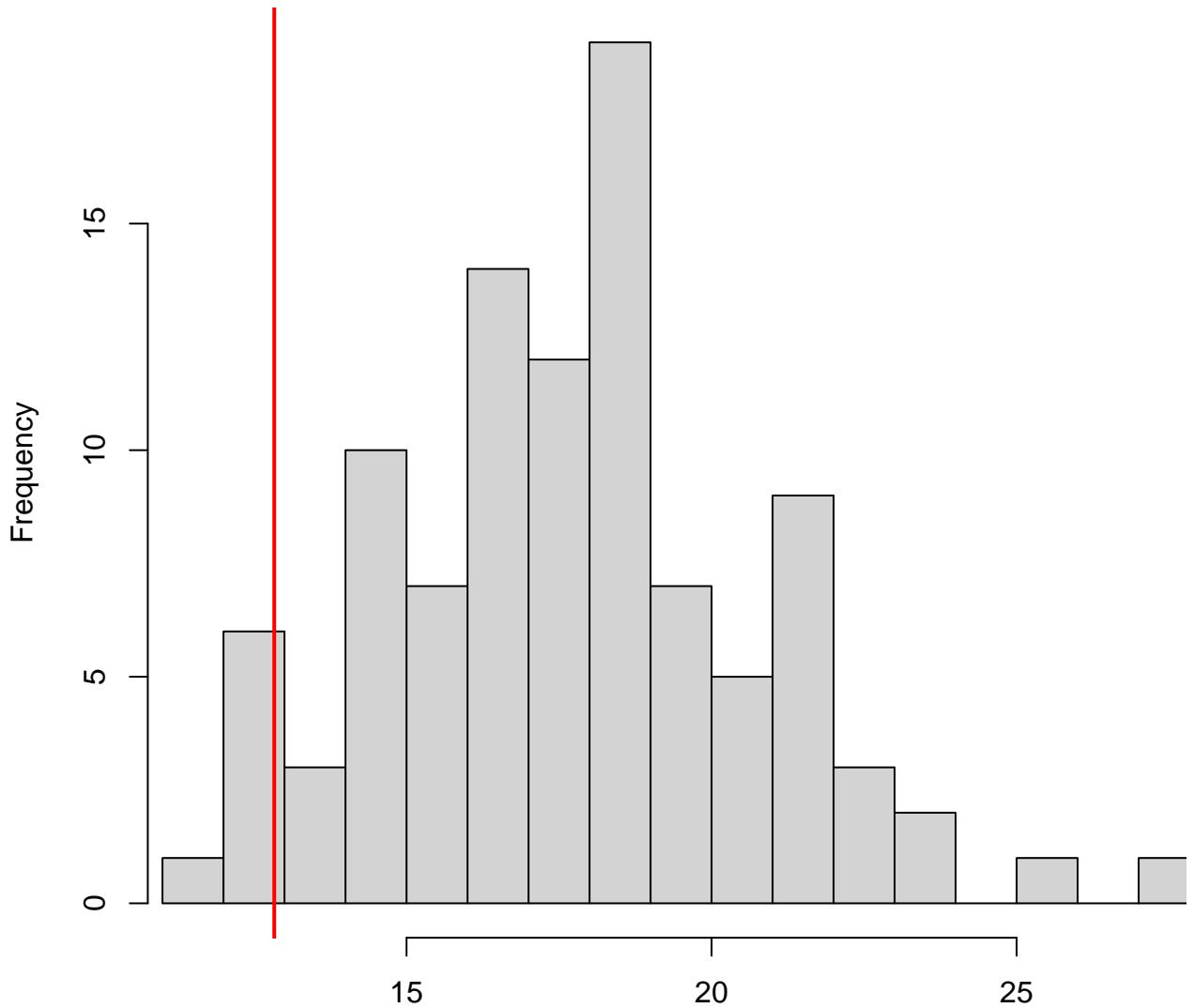


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.42

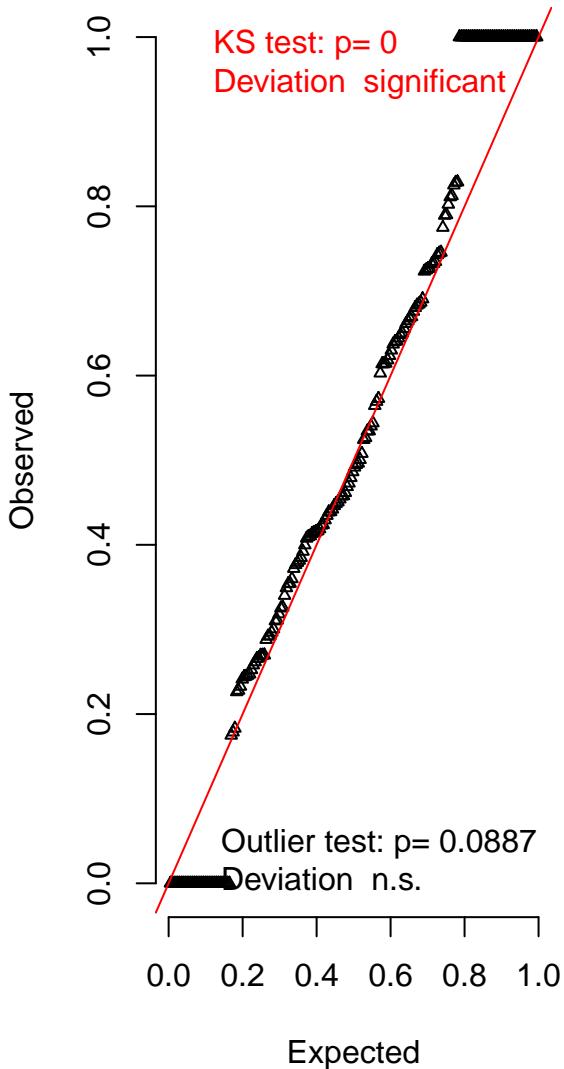
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



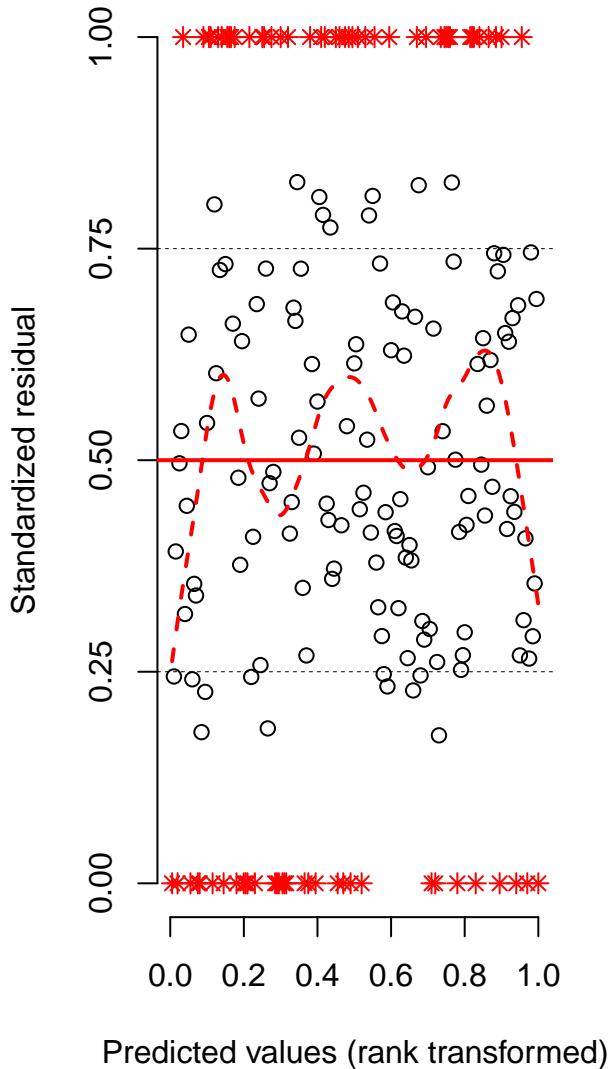
Simulated values, red line = fitted model. p-value (two.sided) = 0.1

DHARMA scaled residual plots

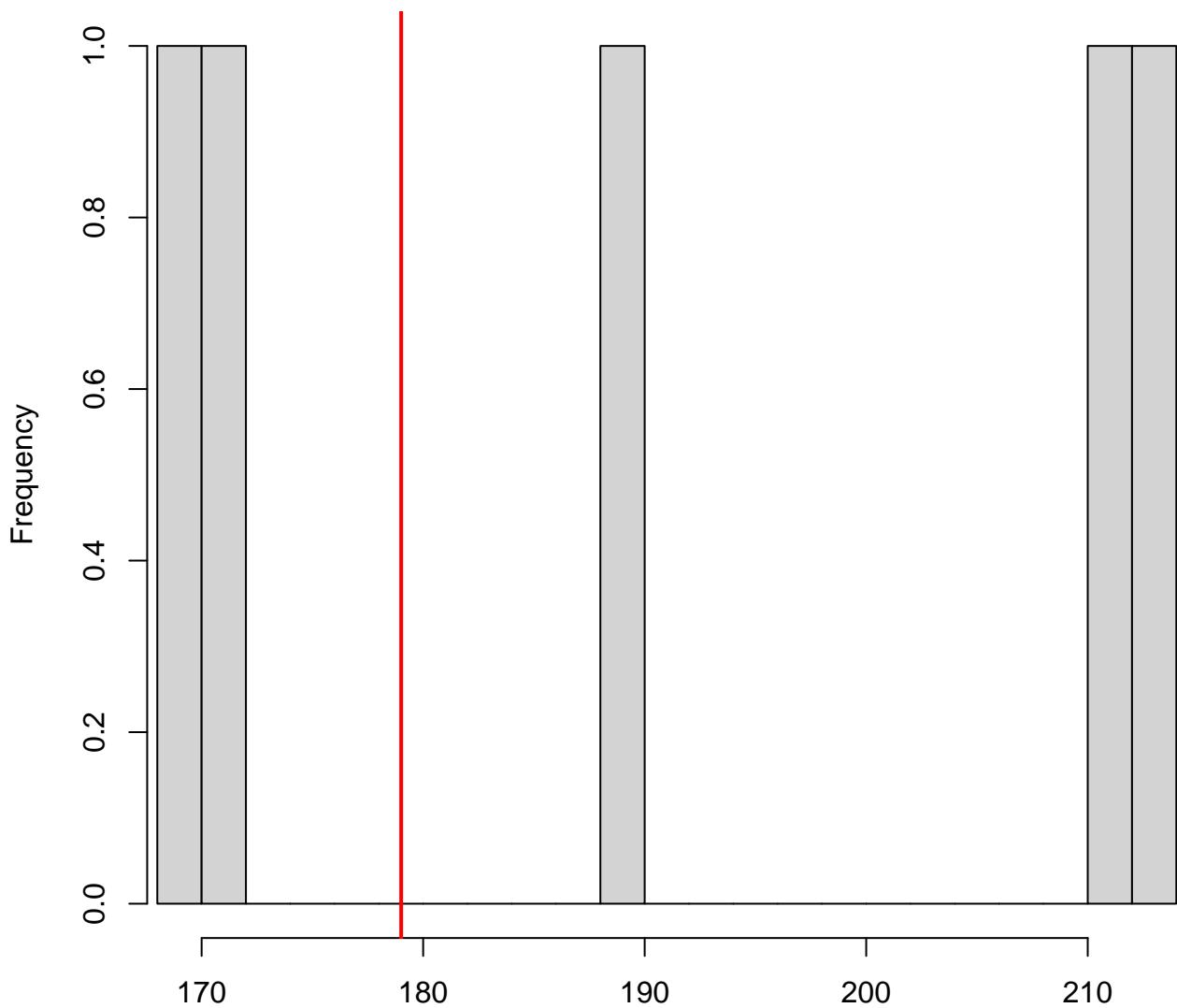
QQ plot residuals



Residual vs. predicted lines should match

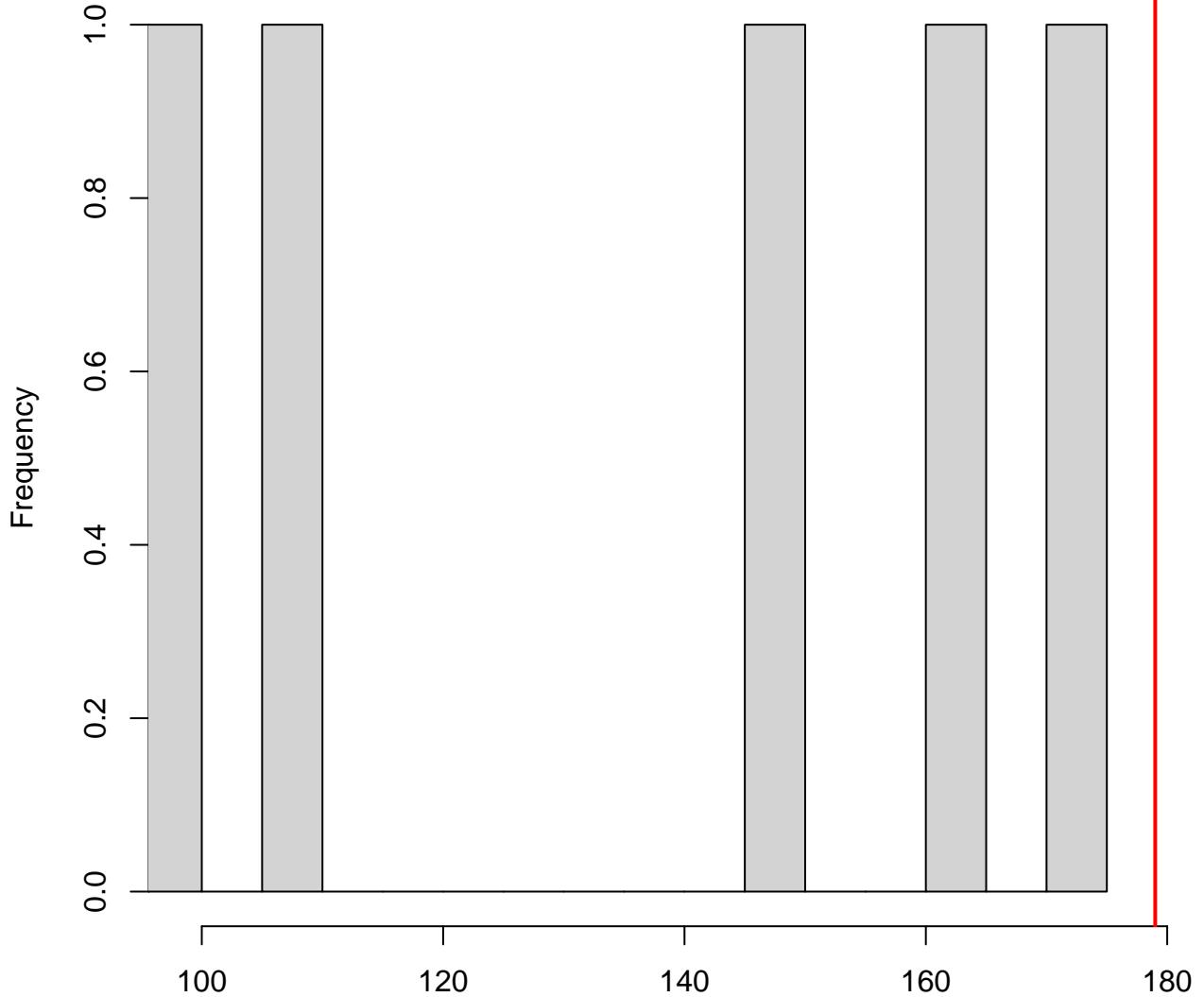


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



Simulated values, red line = fitted model. p-value (two.sided) = 0.8

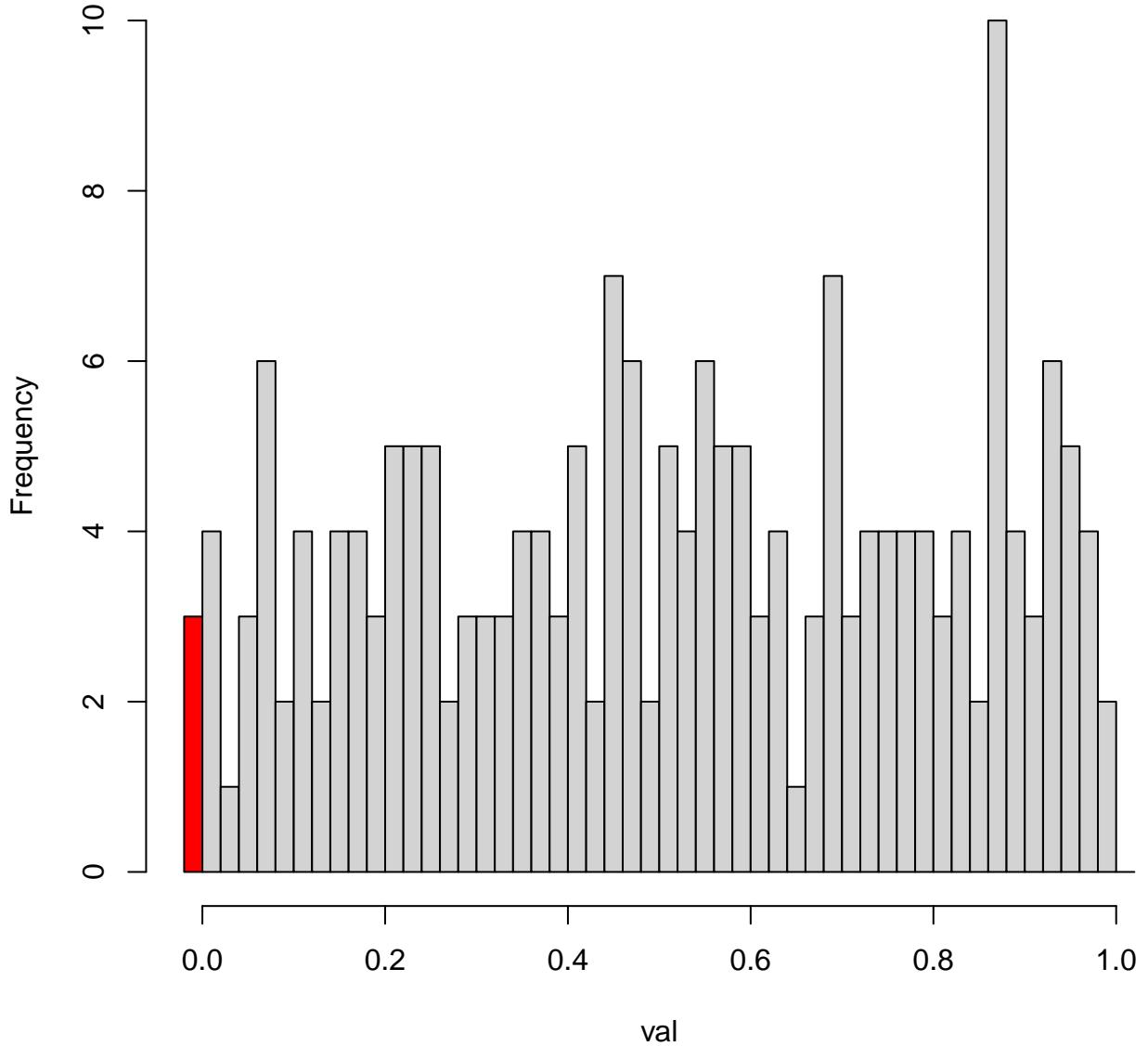
DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



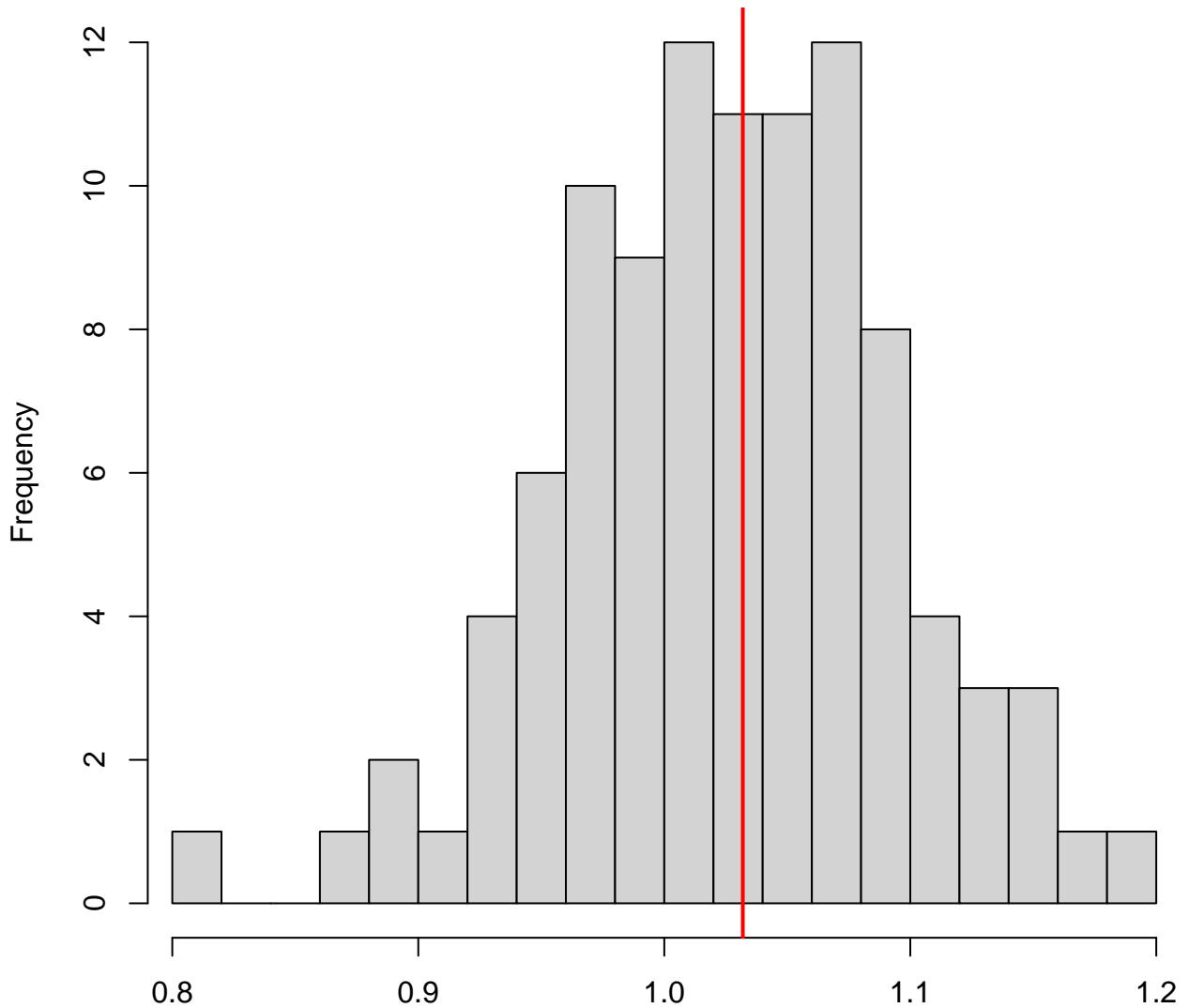
Simulated values, red line = fitted model. p-value (two.sided) = 0

Hist of DHARMA residuals

Outliers are marked red

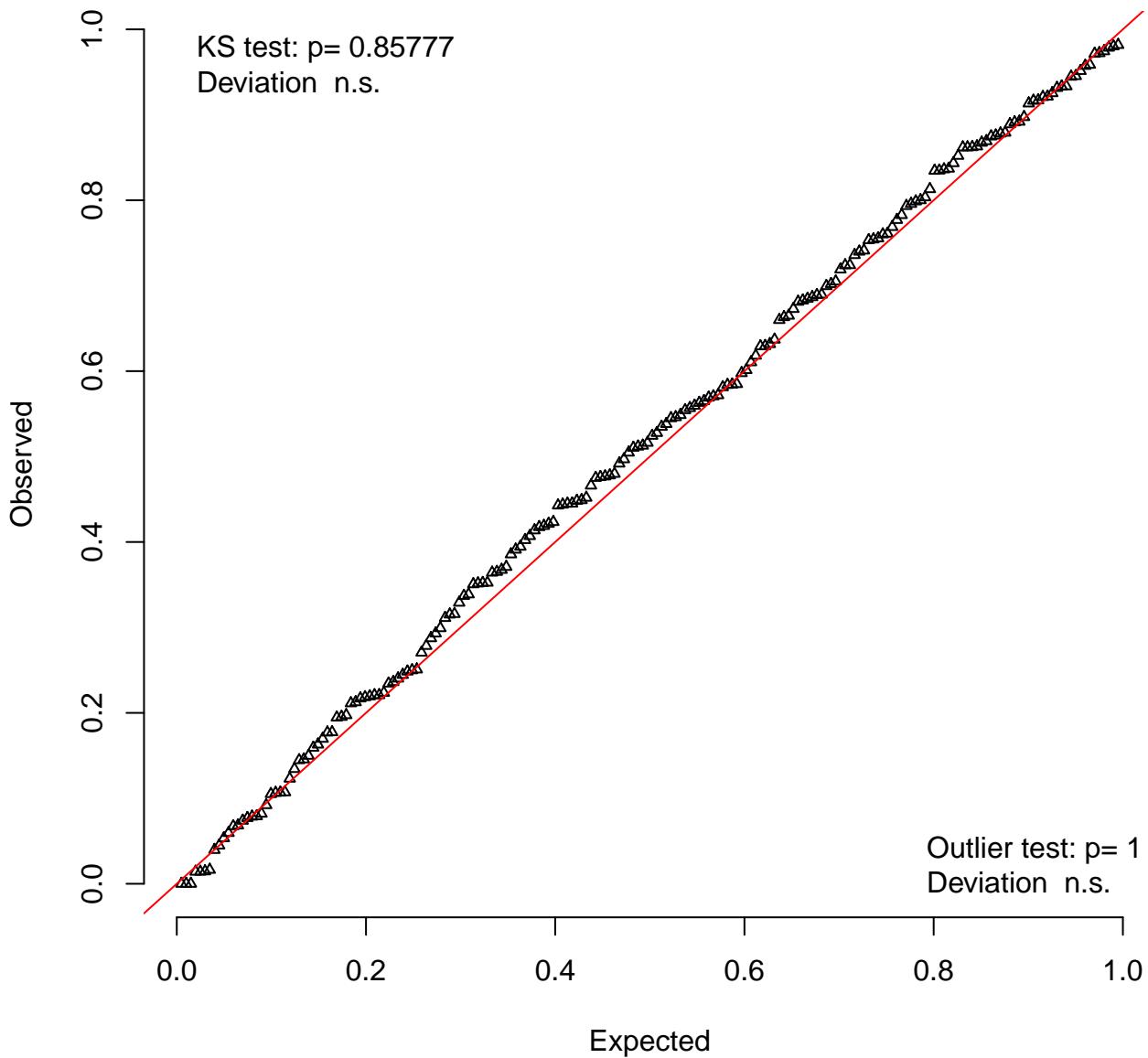


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

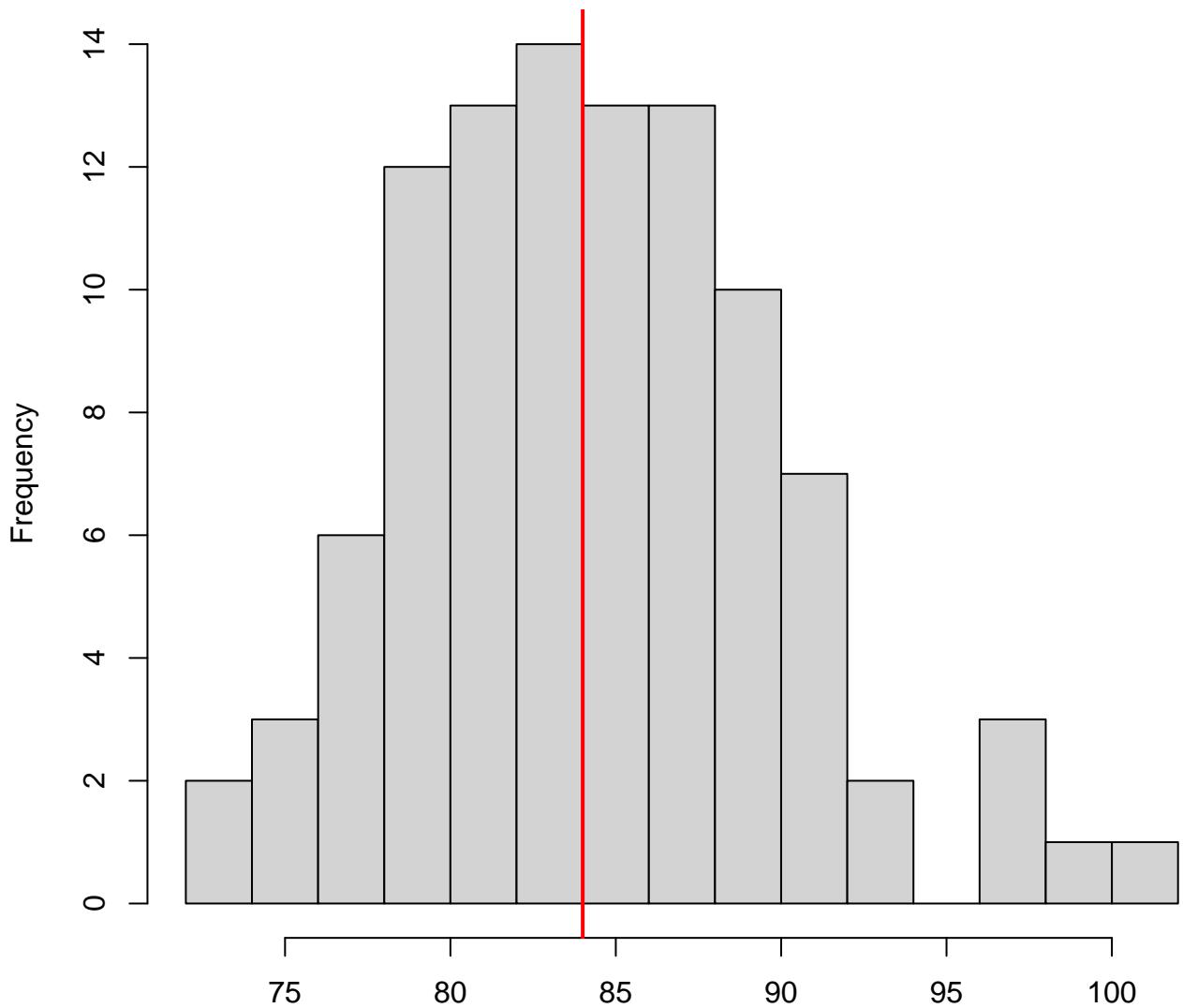


Simulated values, red line = fitted model. p-value (two.sided) = 1

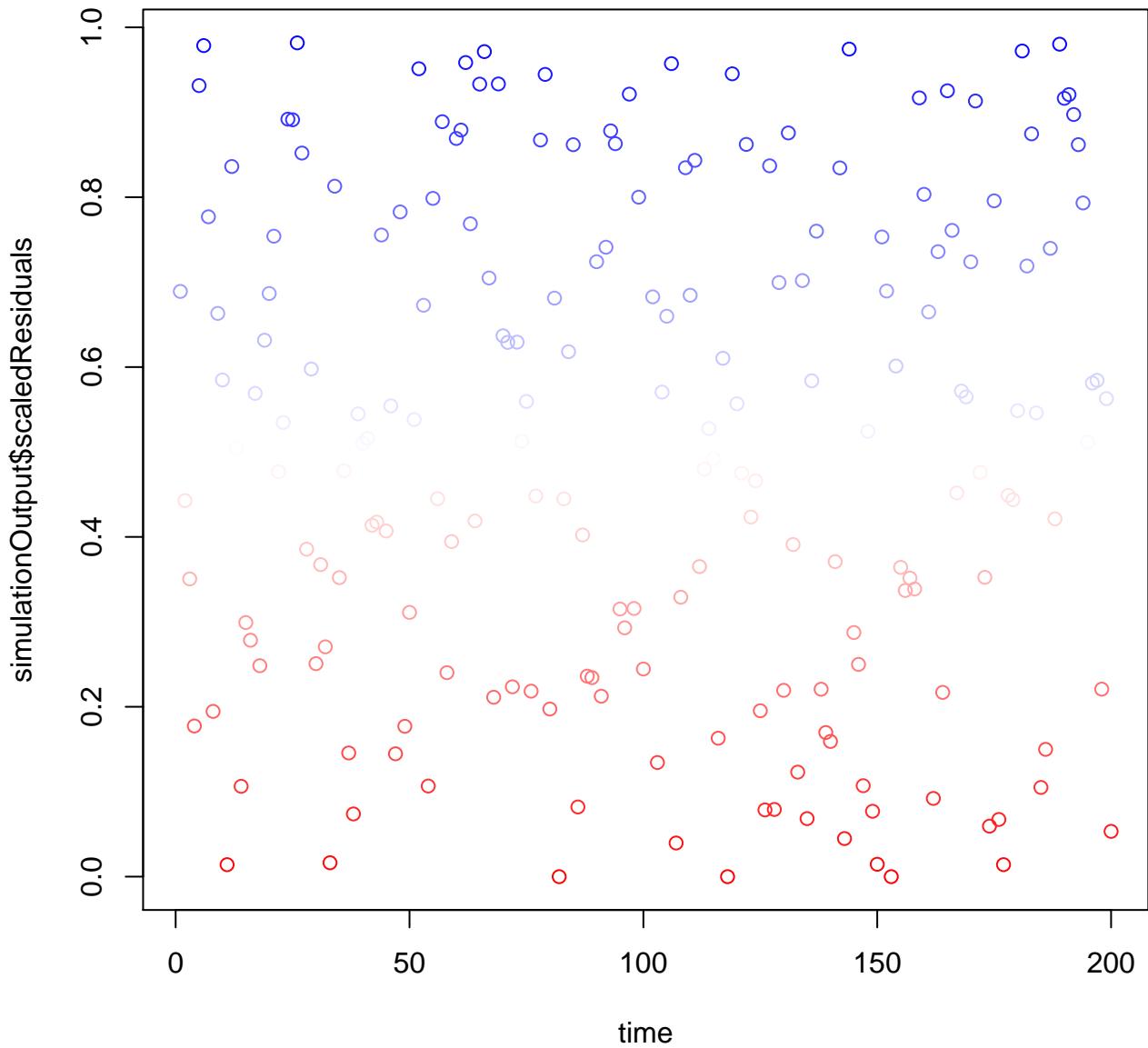
QQ plot residuals

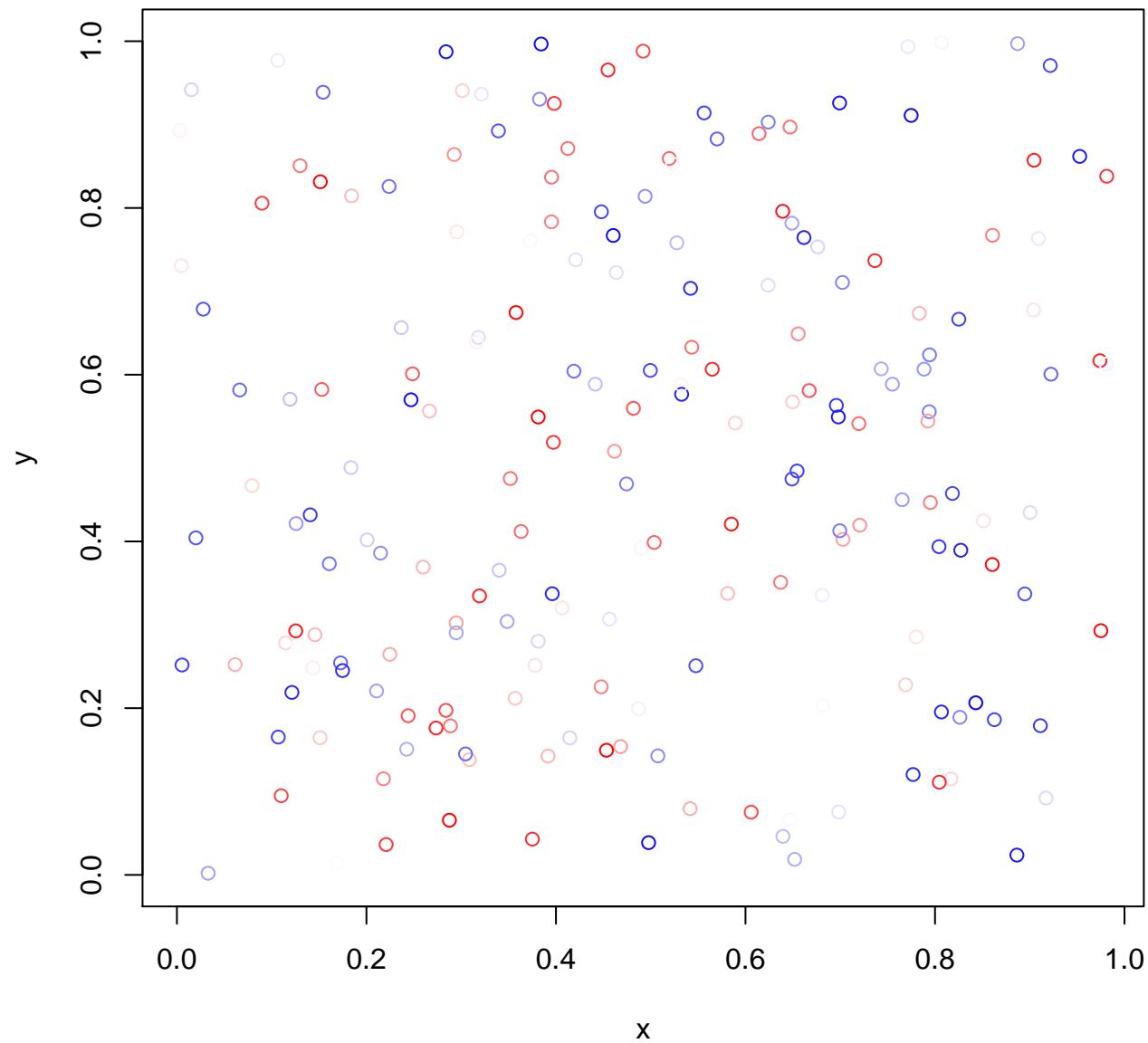


DHARMA zero-inflation test via comparison to expected zeros with simulation under H0 = fitted model

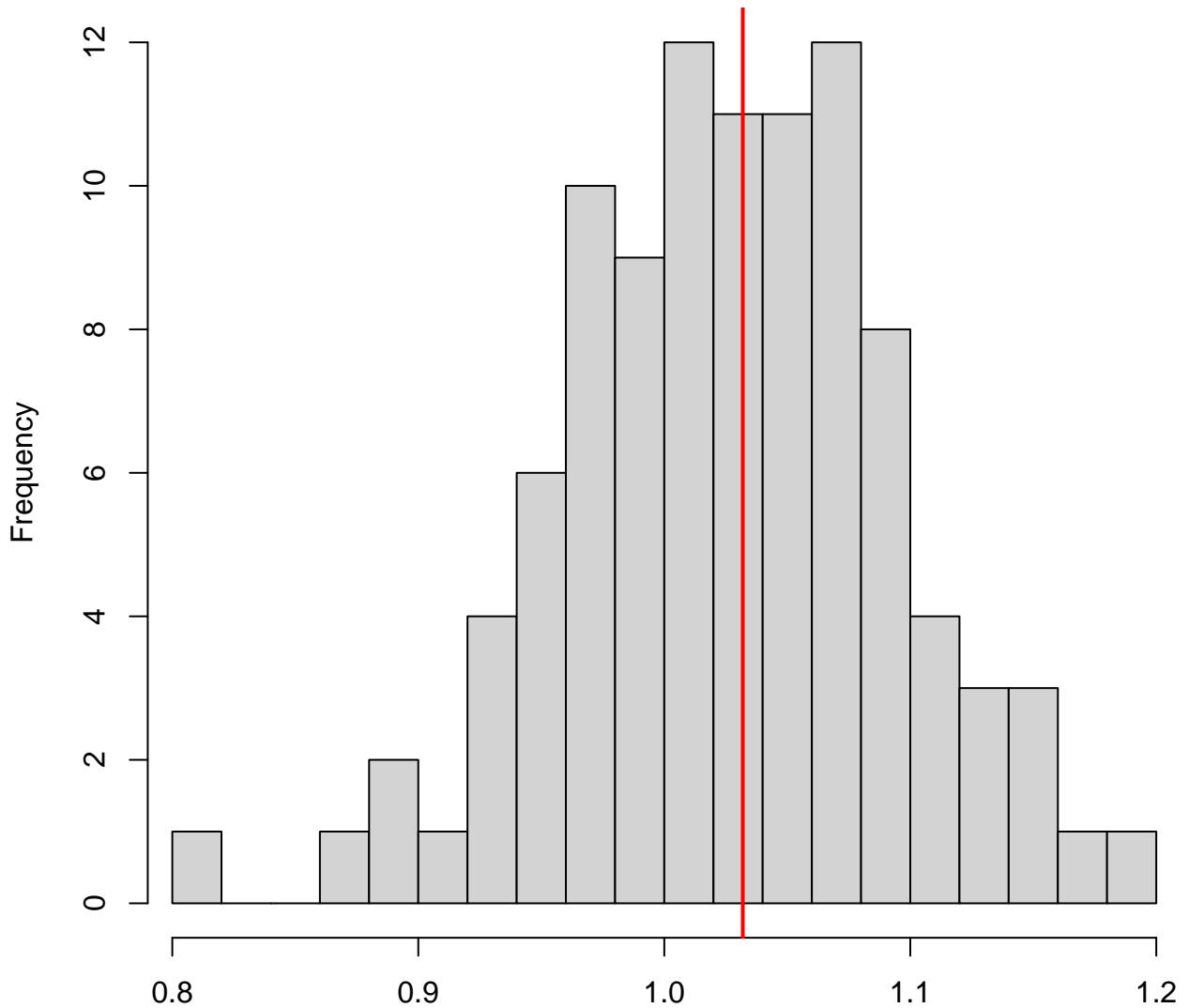


Simulated values, red line = fitted model. p-value (two.sided) = 1



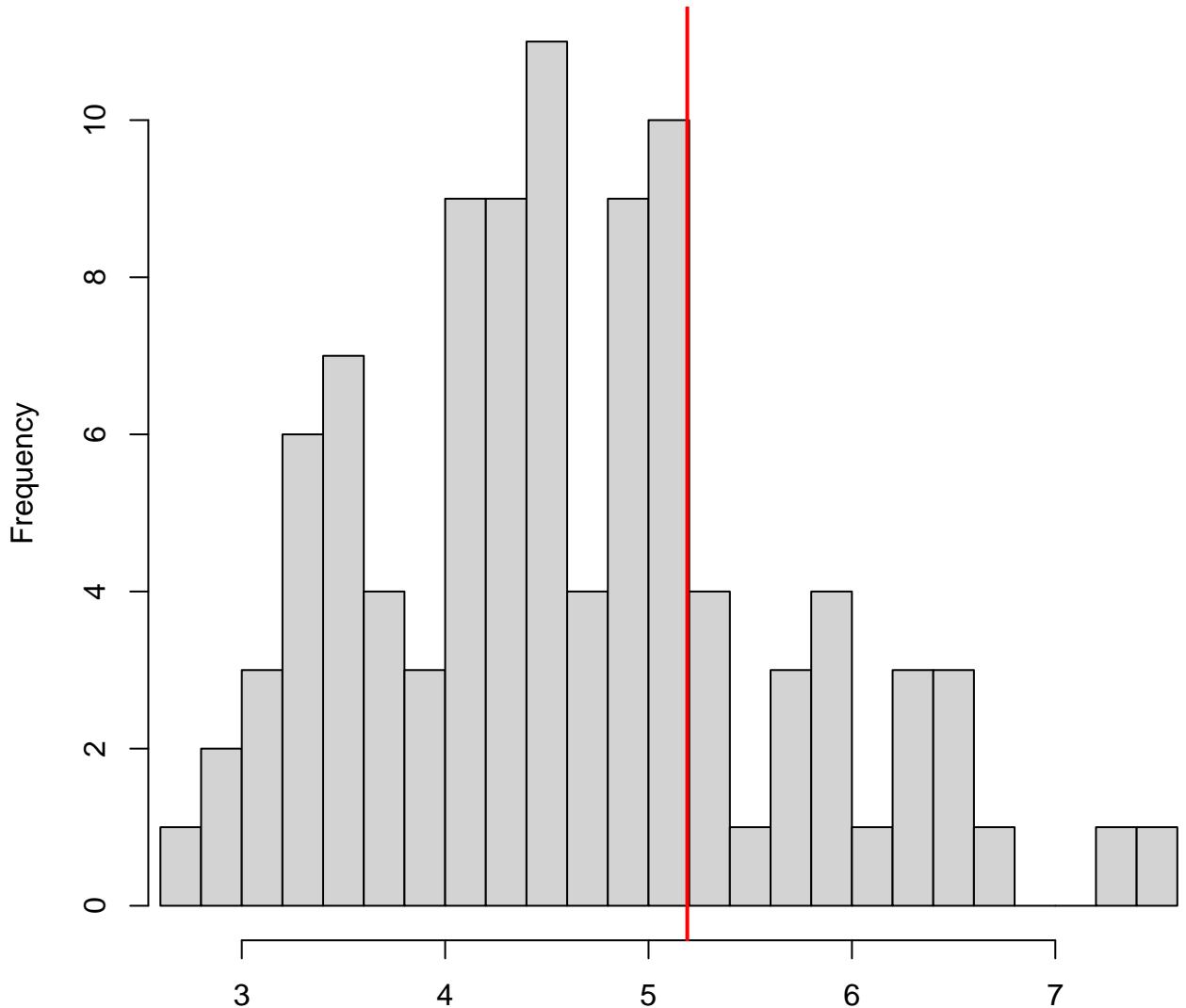


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 1

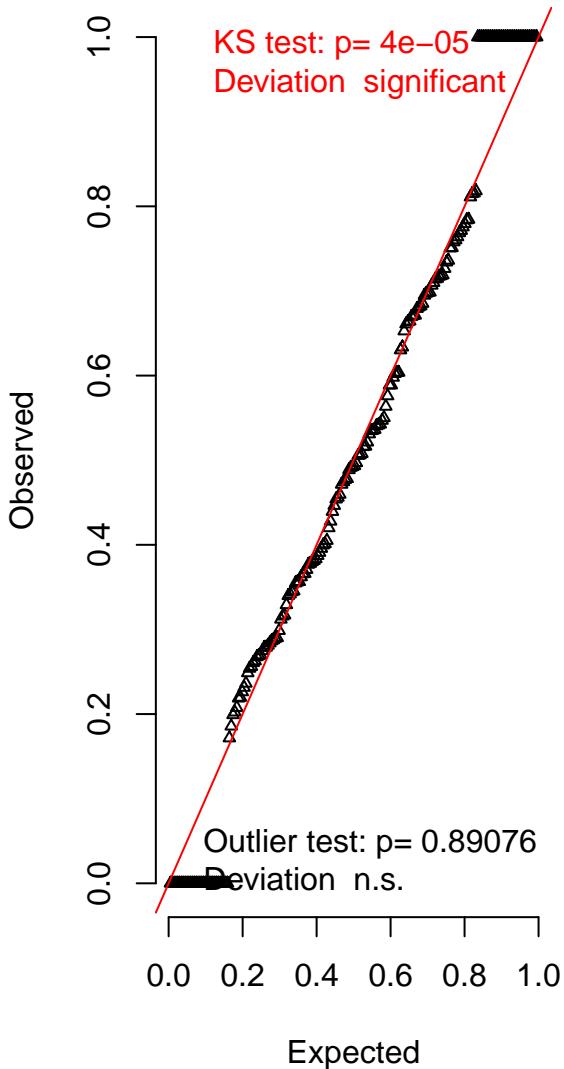
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



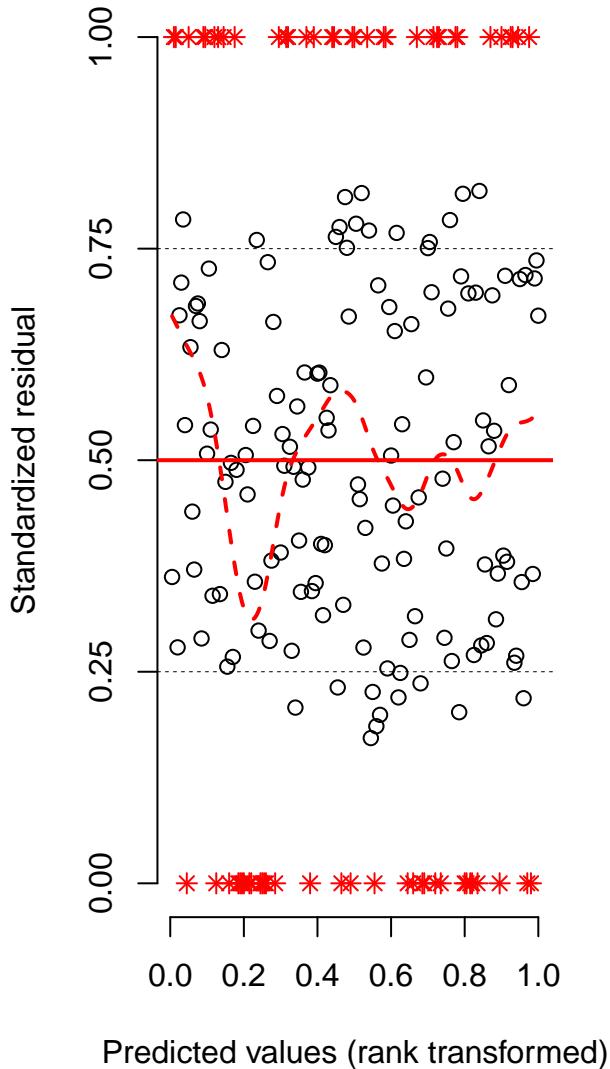
Simulated values, red line = fitted model. p-value (two.sided) = 0.44

DHARMA scaled residual plots

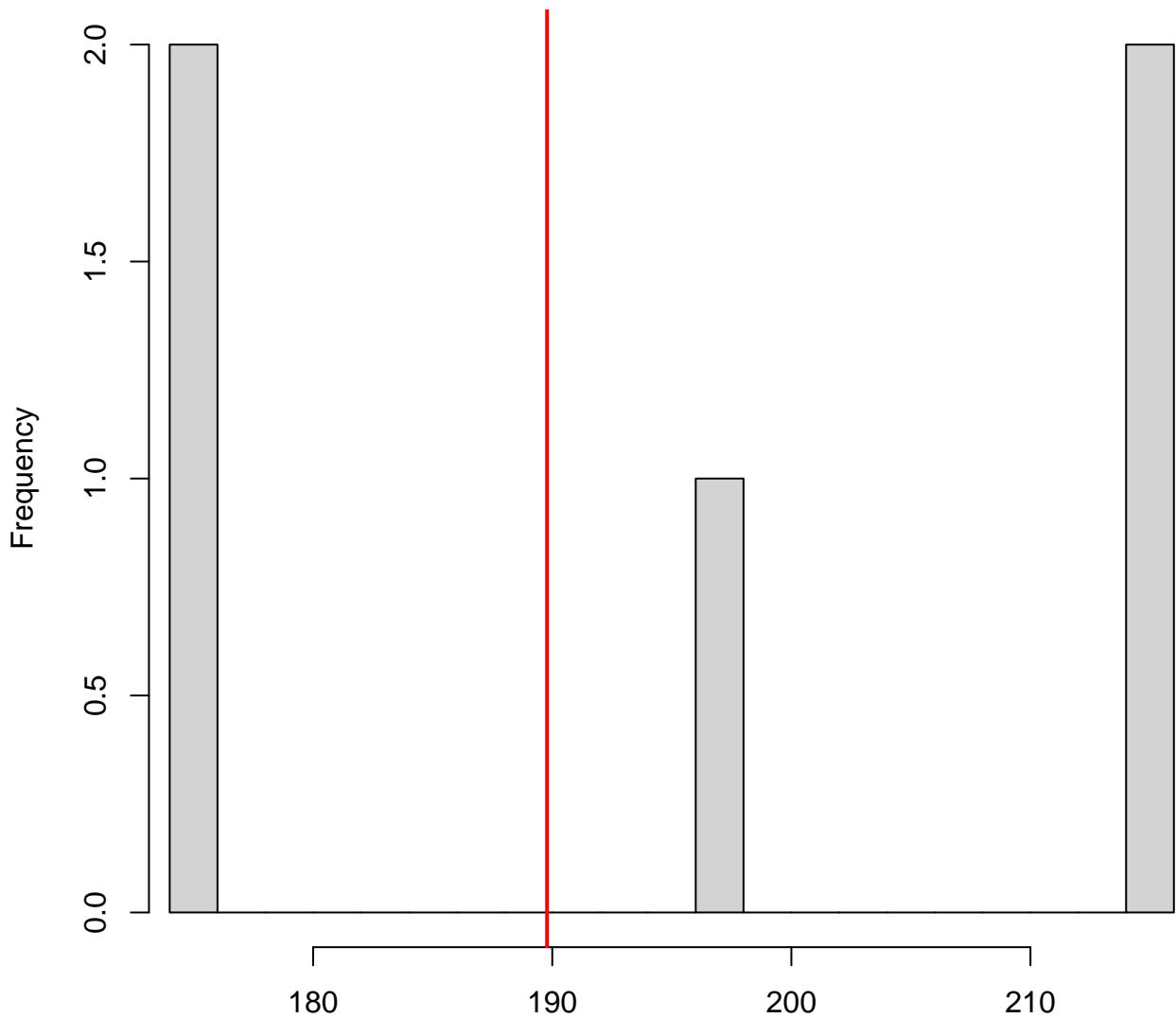
QQ plot residuals



Residual vs. predicted lines should match

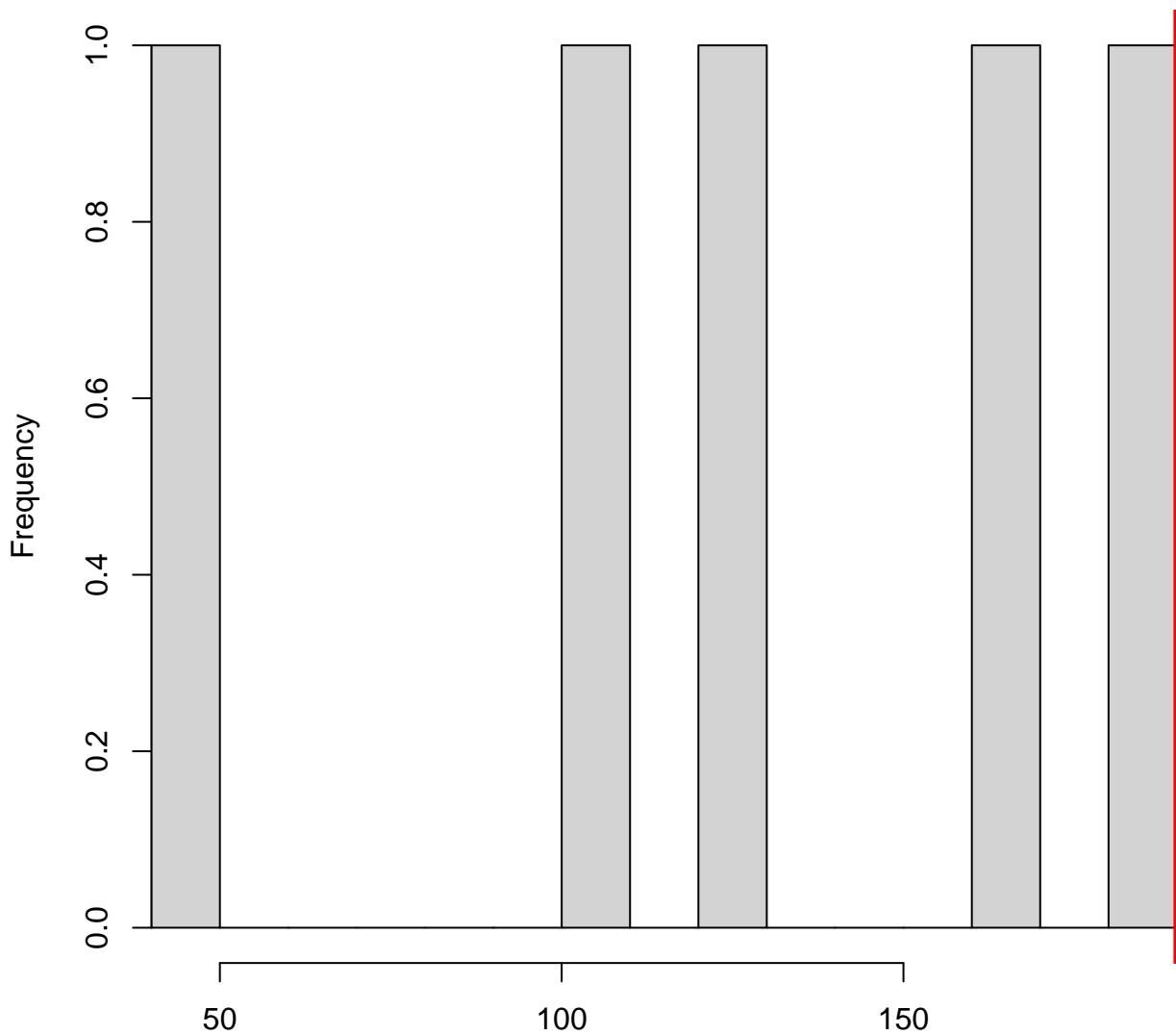


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



Simulated values, red line = fitted model. p-value (two.sided) = 0.8

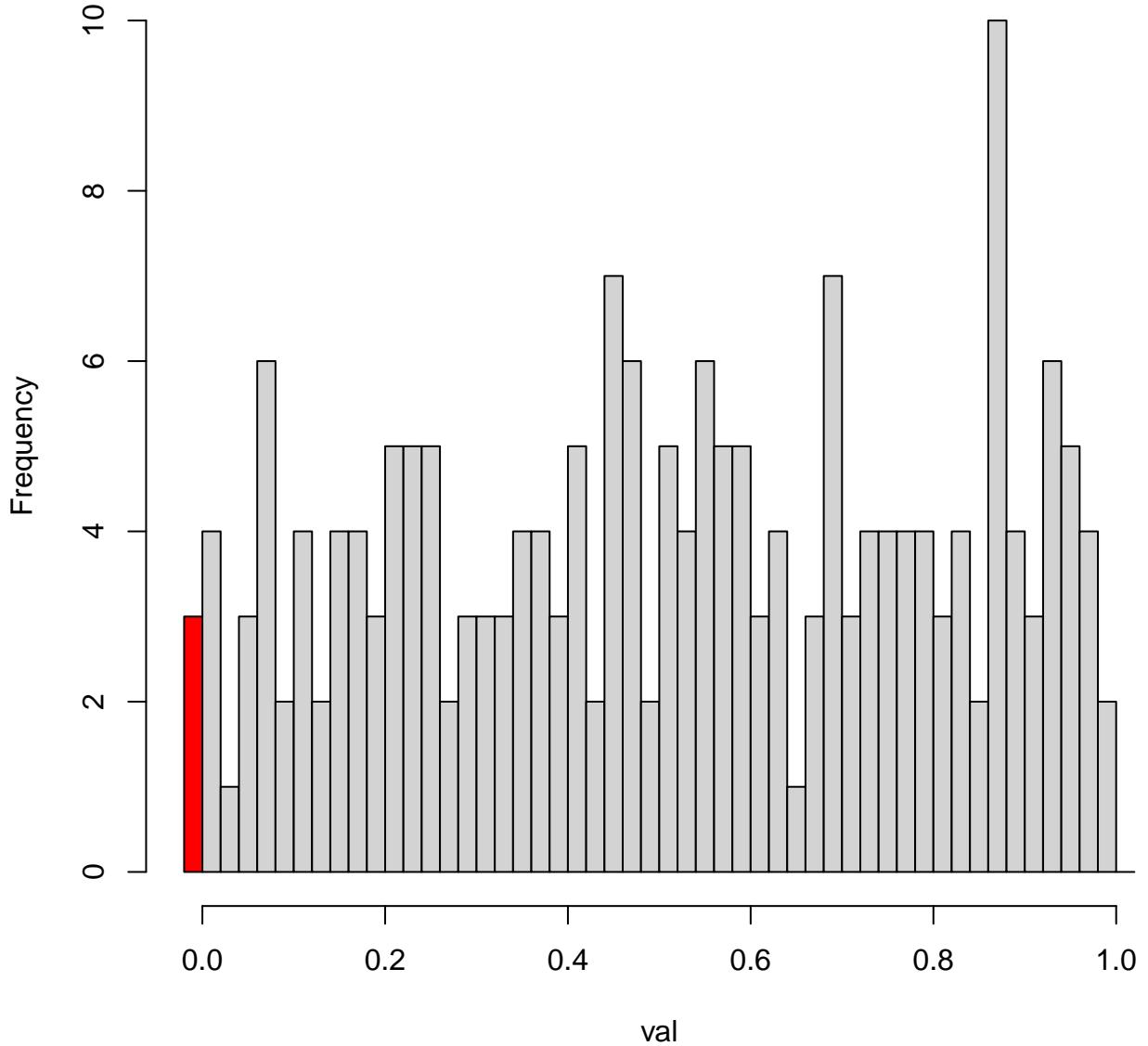
DHARMa nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



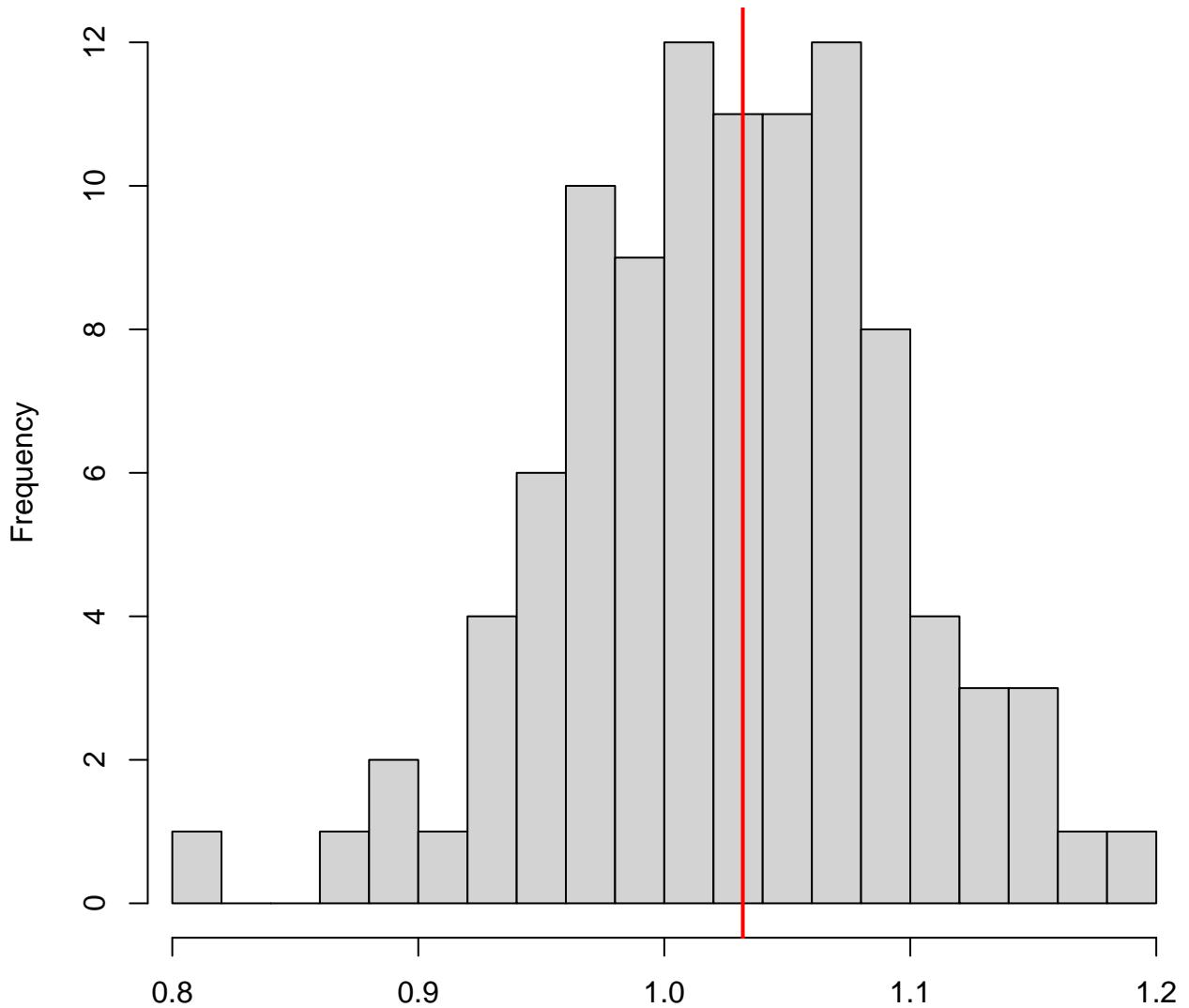
Simulated values, red line = fitted model. p-value (two.sided) = 0

Hist of DHARMA residuals

Outliers are marked red

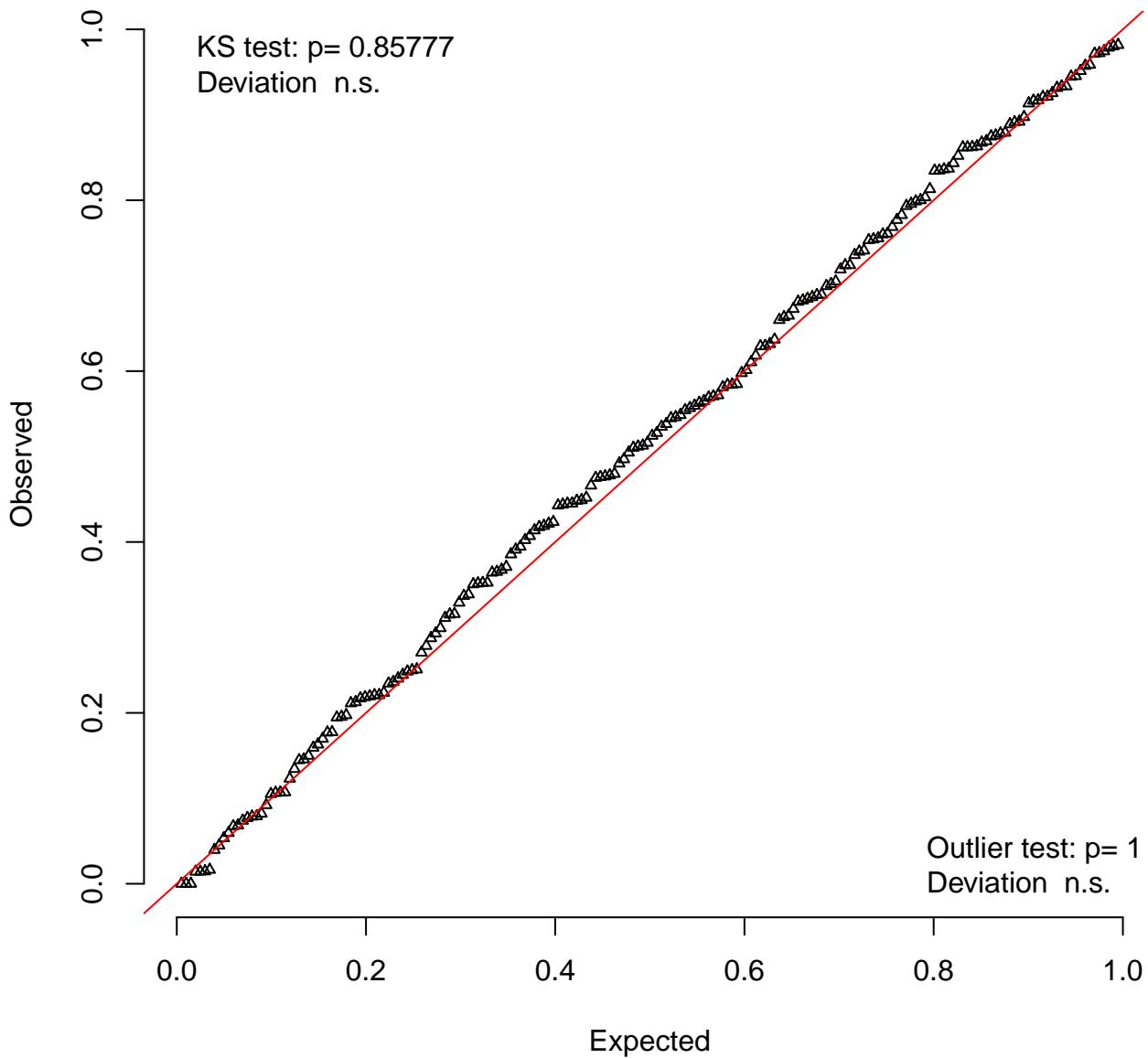


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

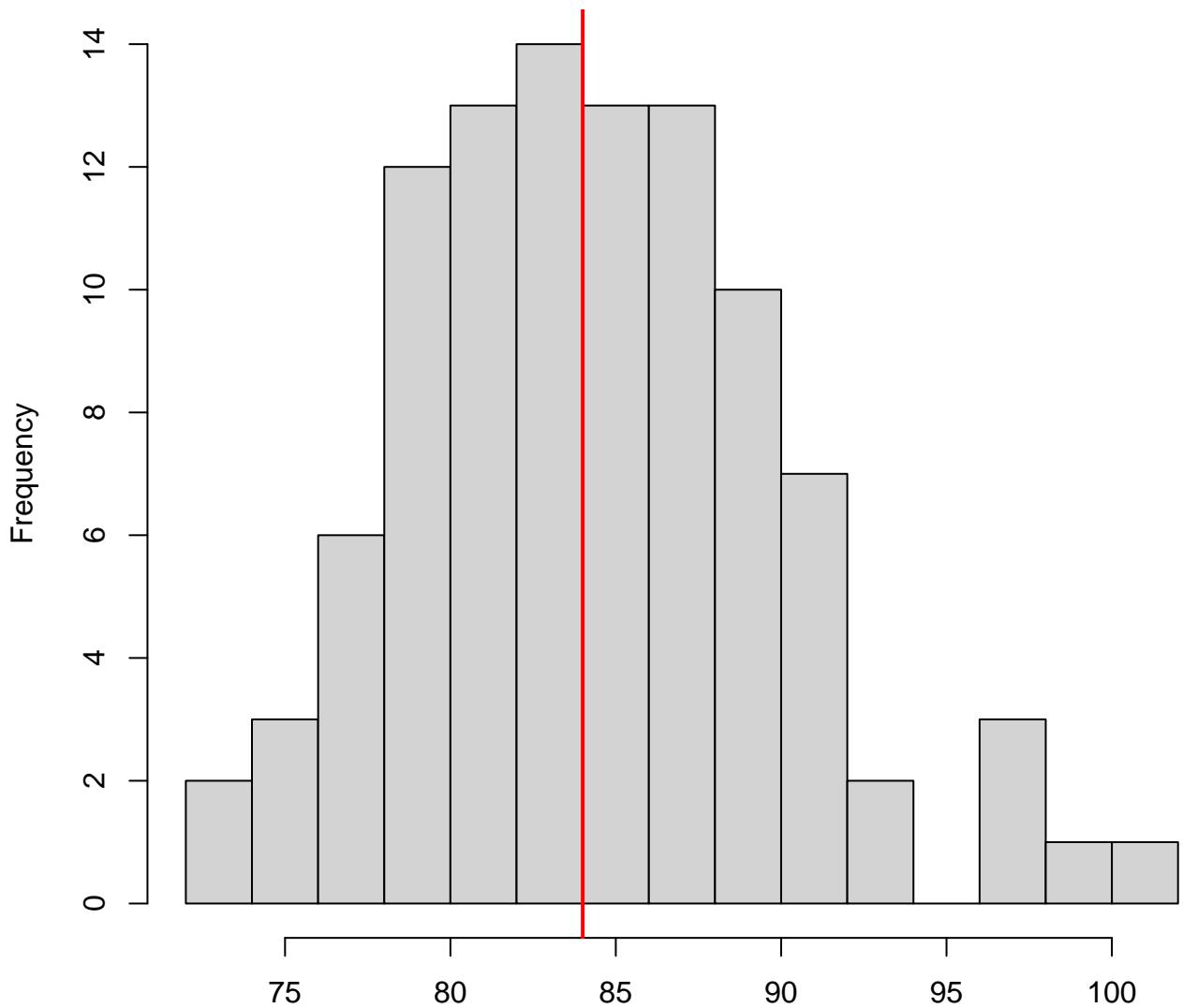


Simulated values, red line = fitted model. p-value (two.sided) = 1

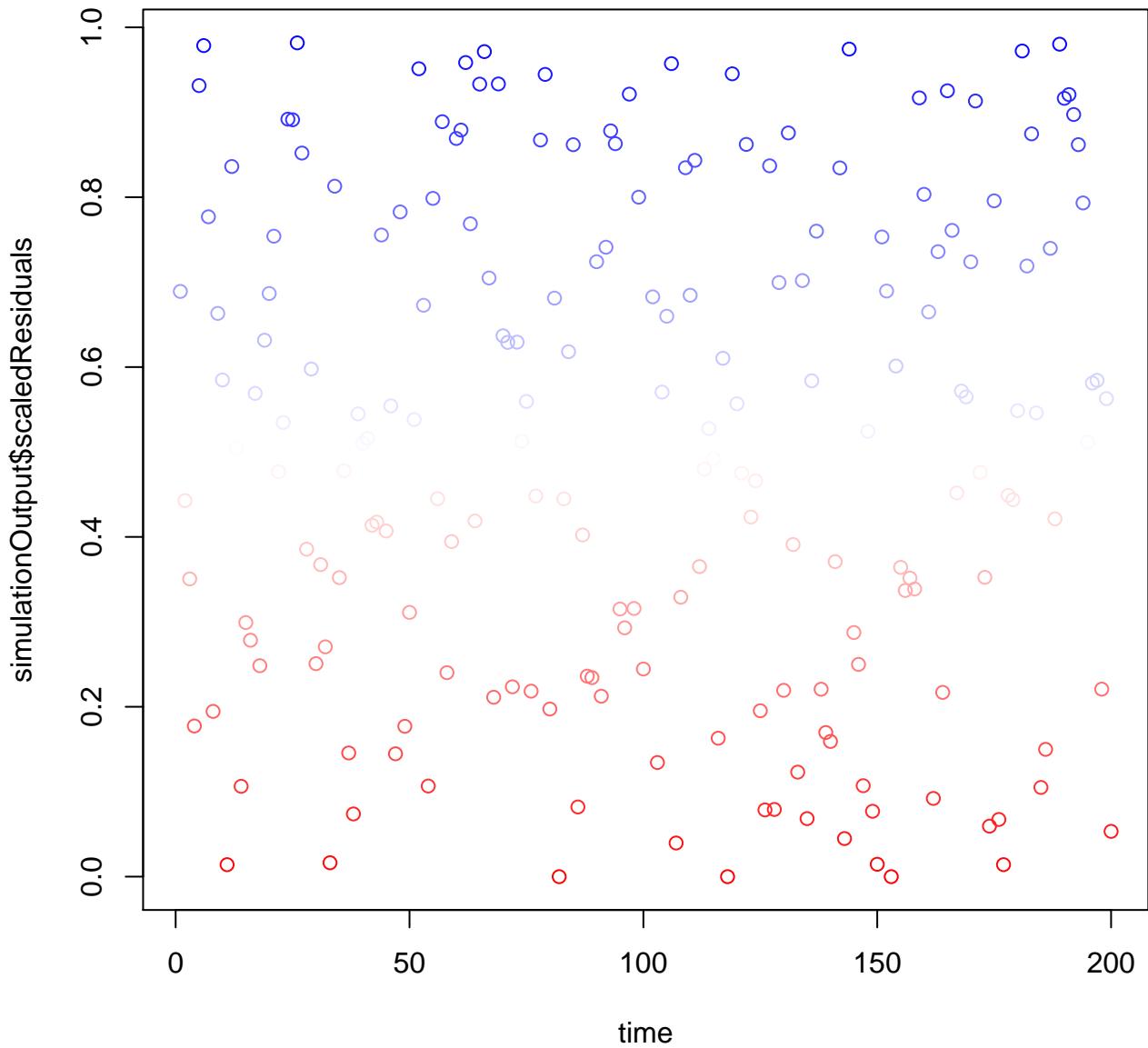
QQ plot residuals

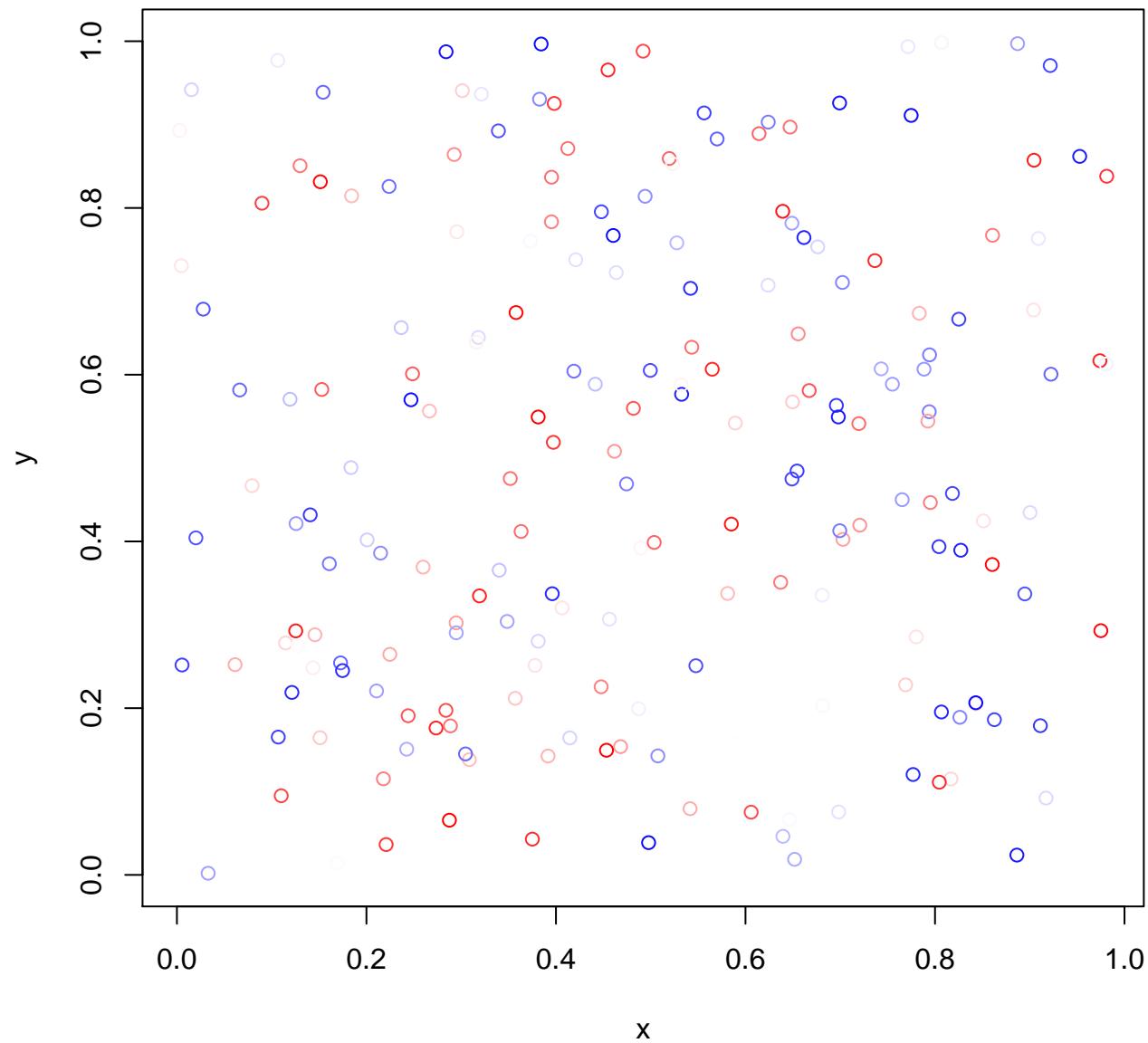


DHARMA zero-inflation test via comparison to expected zeros with simulation under $H_0 =$ fitted model

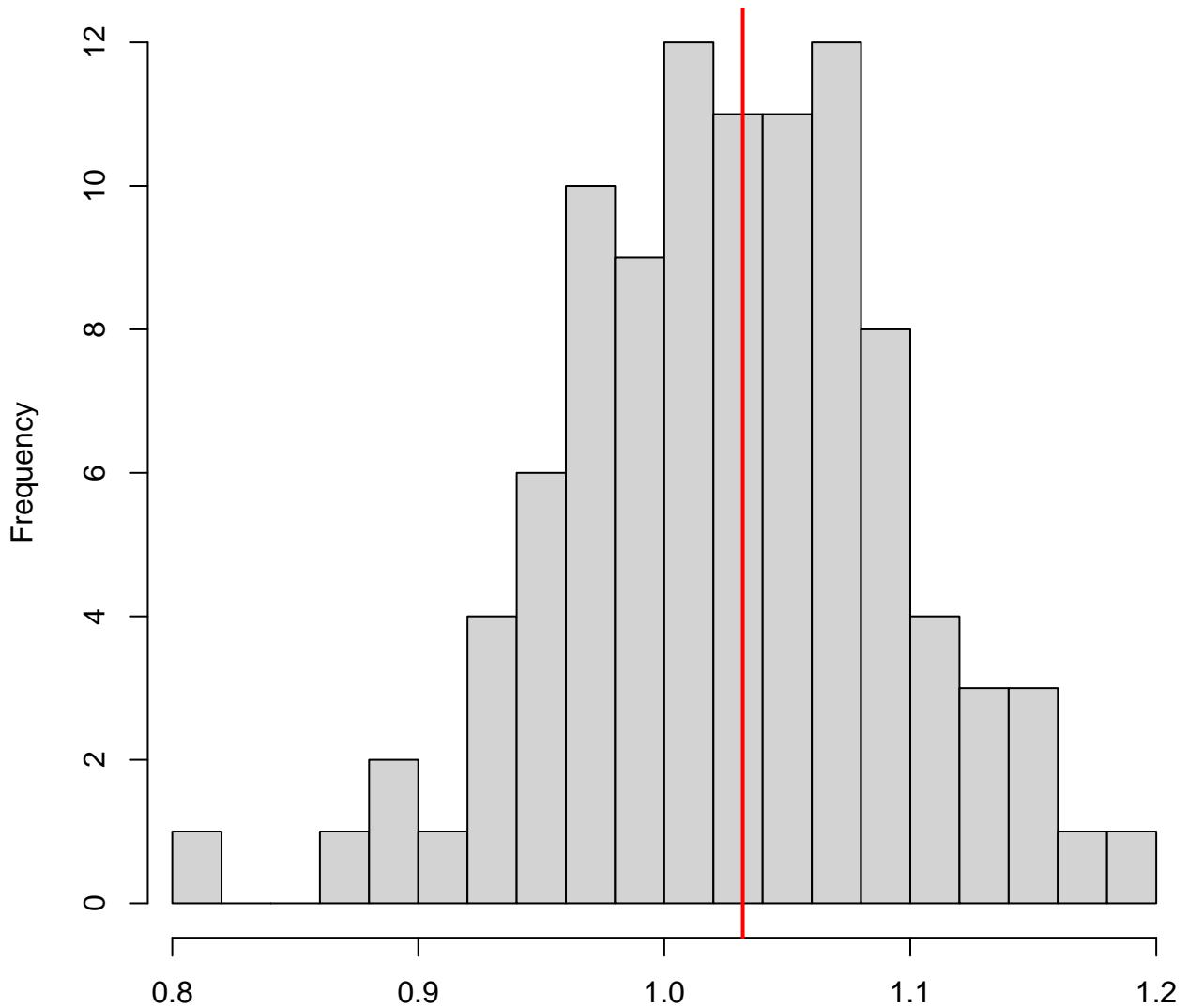


Simulated values, red line = fitted model. p-value (two.sided) = 1



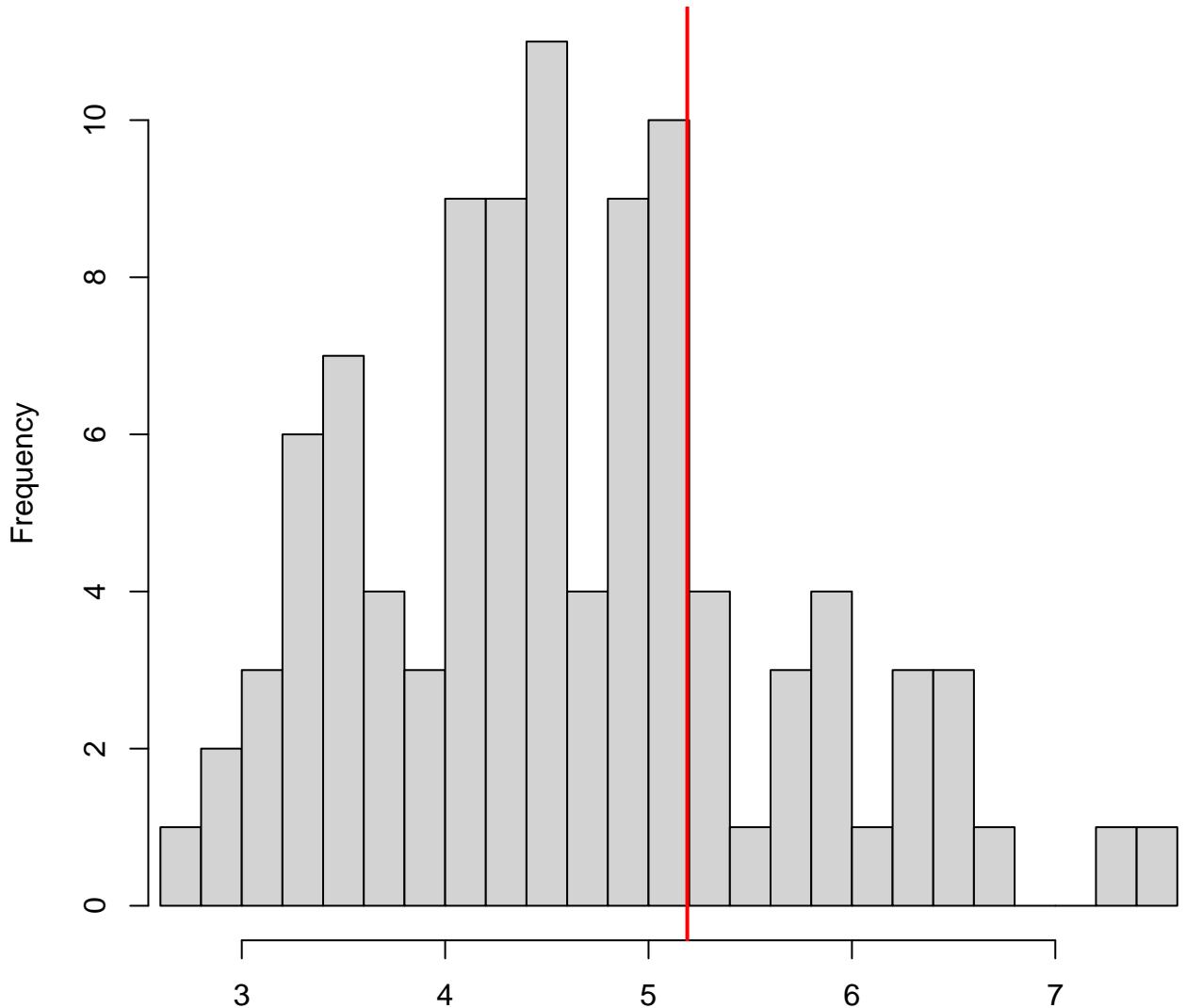


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 1

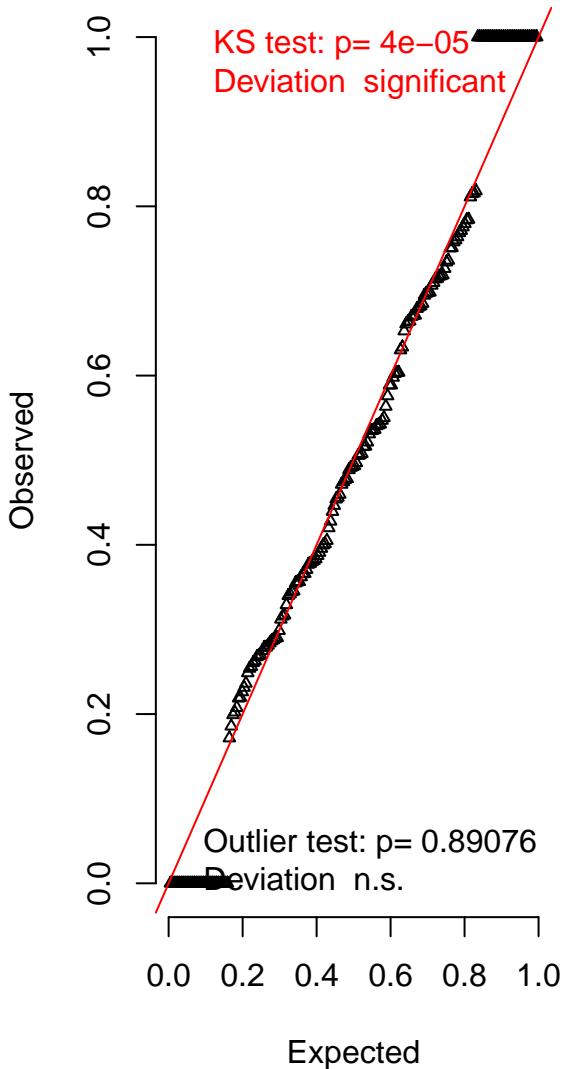
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



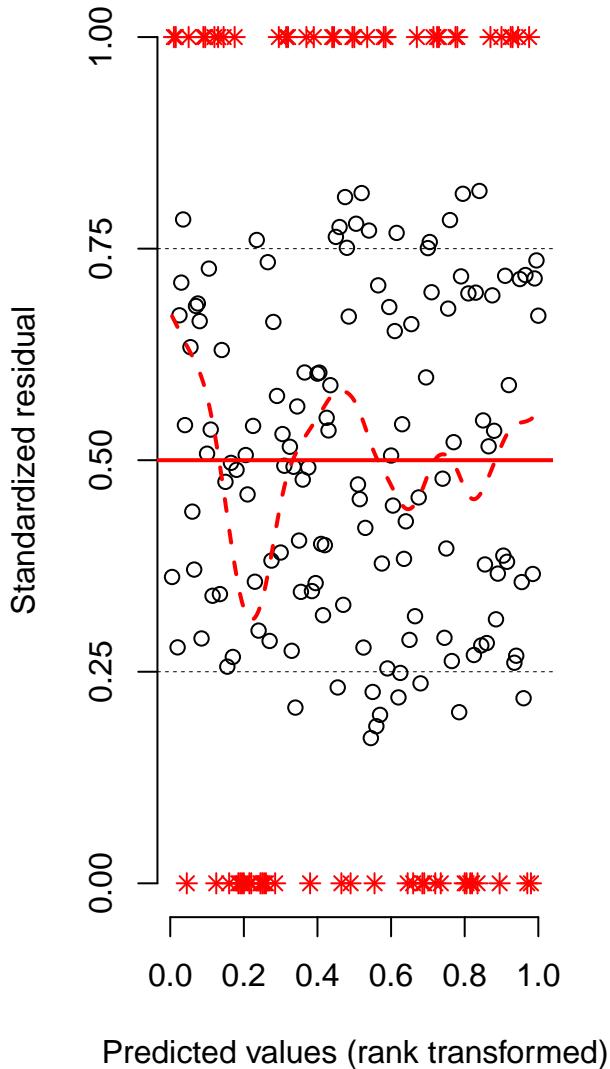
Simulated values, red line = fitted model. p-value (two.sided) = 0.44

DHARMA scaled residual plots

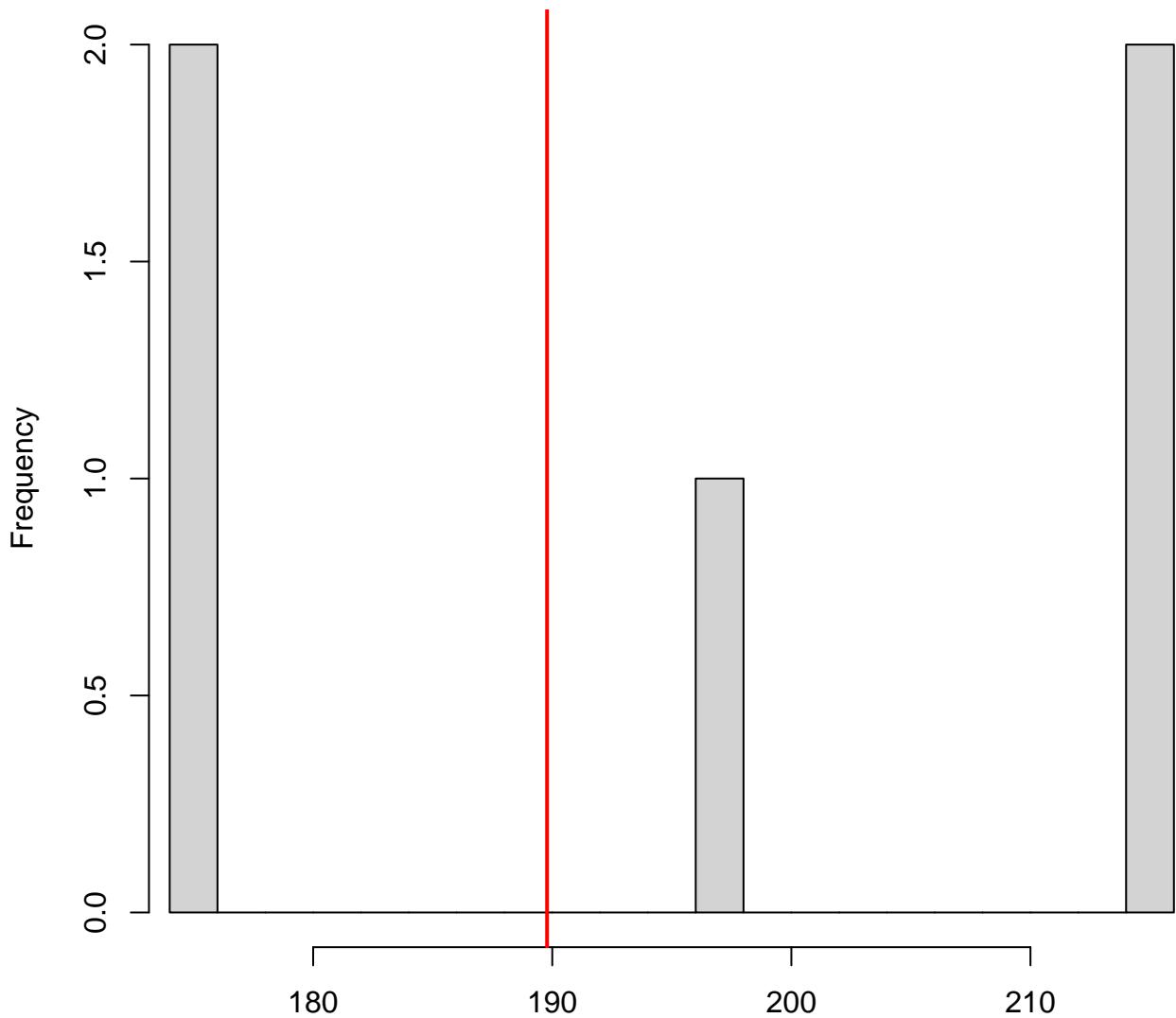
QQ plot residuals



Residual vs. predicted lines should match

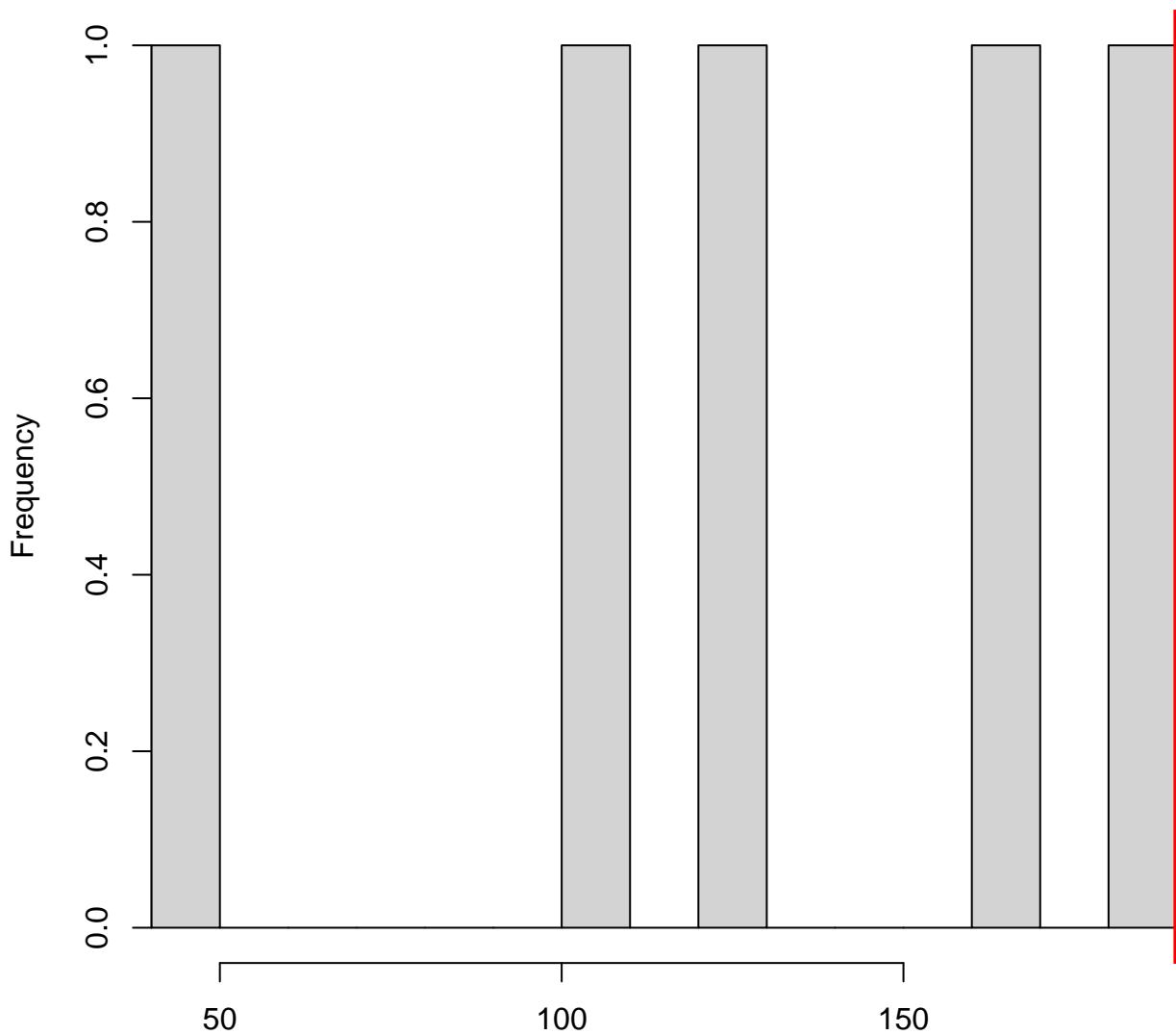


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



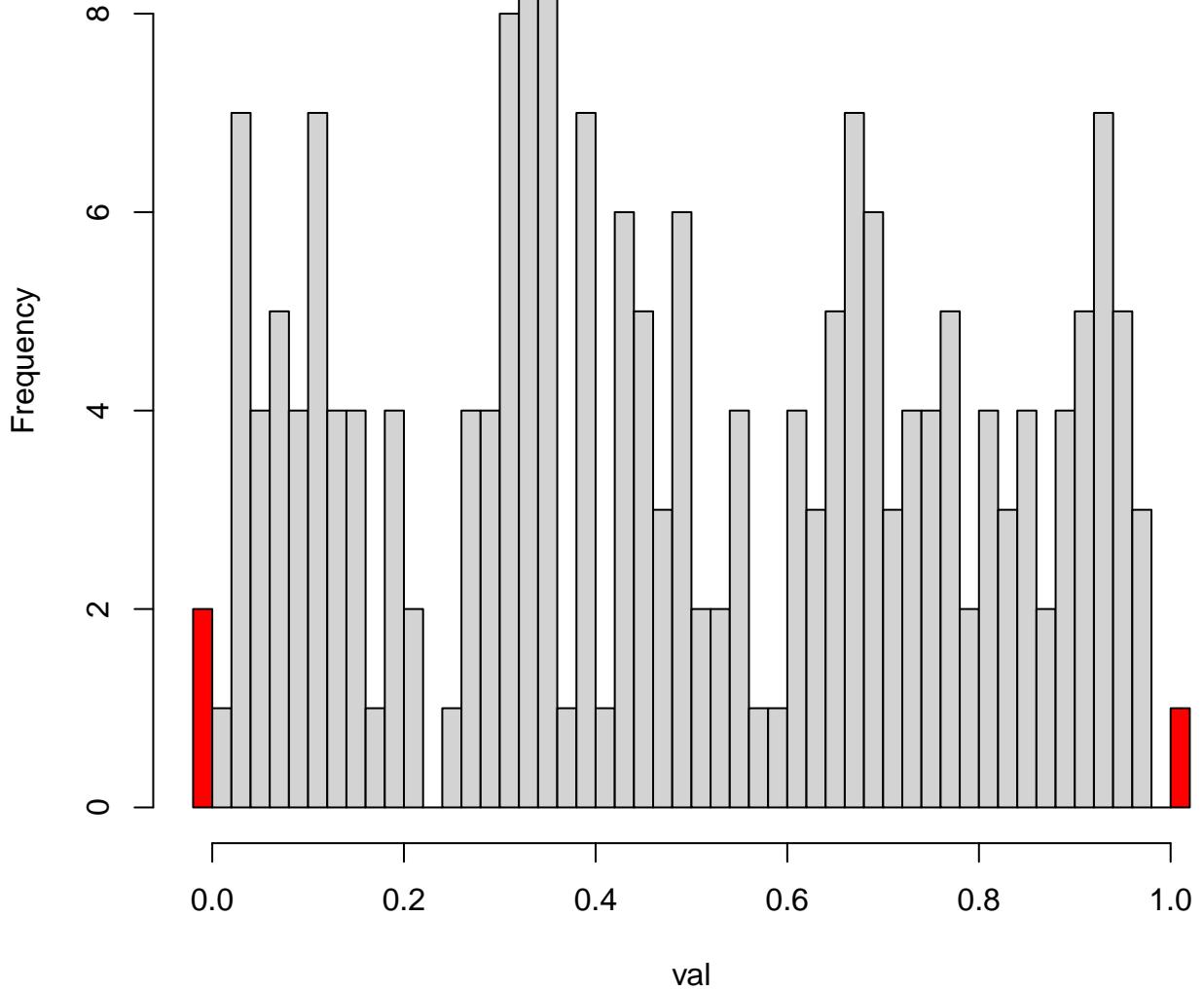
Simulated values, red line = fitted model. p-value (two.sided) = 0.8

DHARMa nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted

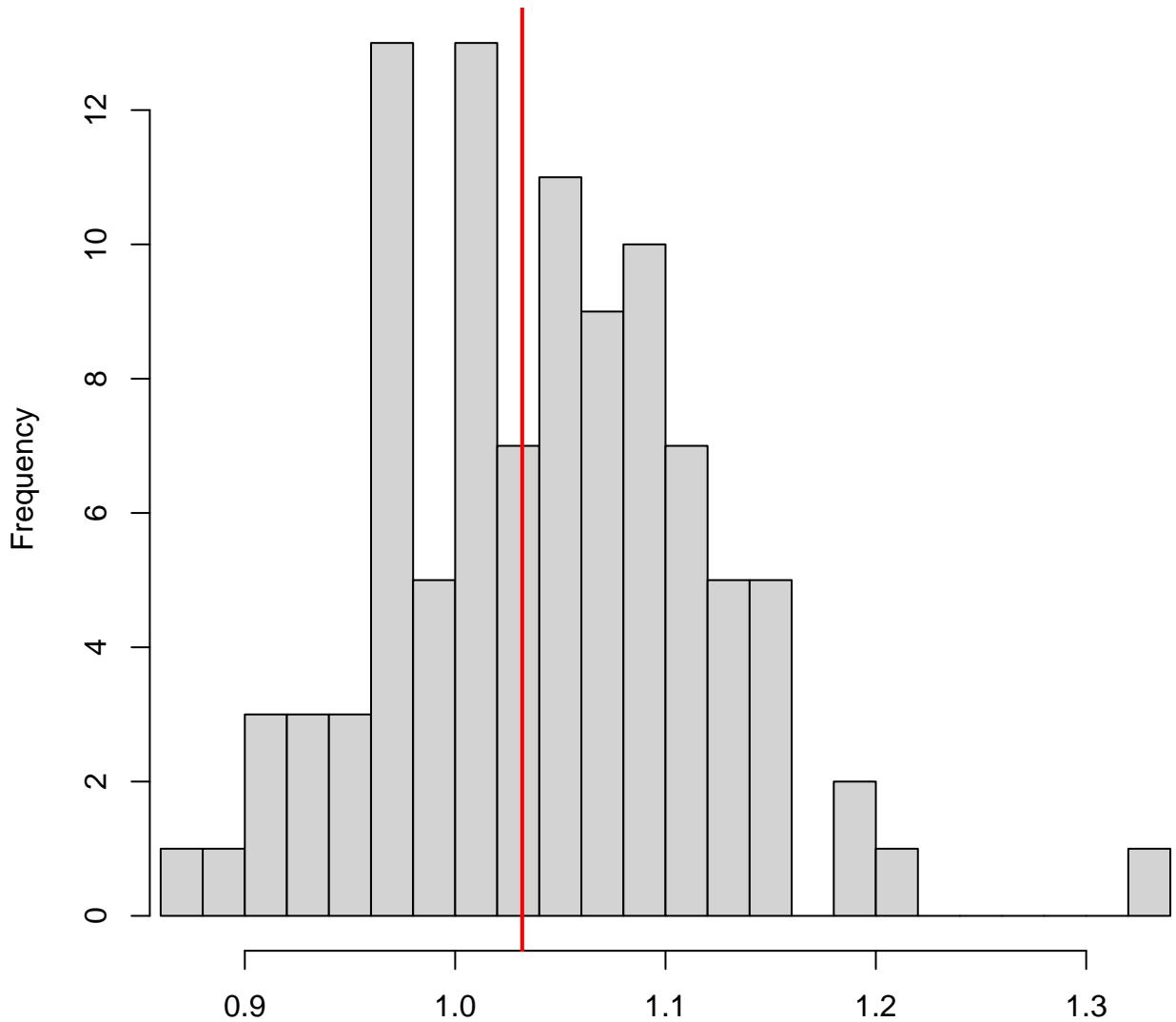


Simulated values, red line = fitted model. p-value (two.sided) = 0

Hist of DHARMa residuals
Outliers are marked red

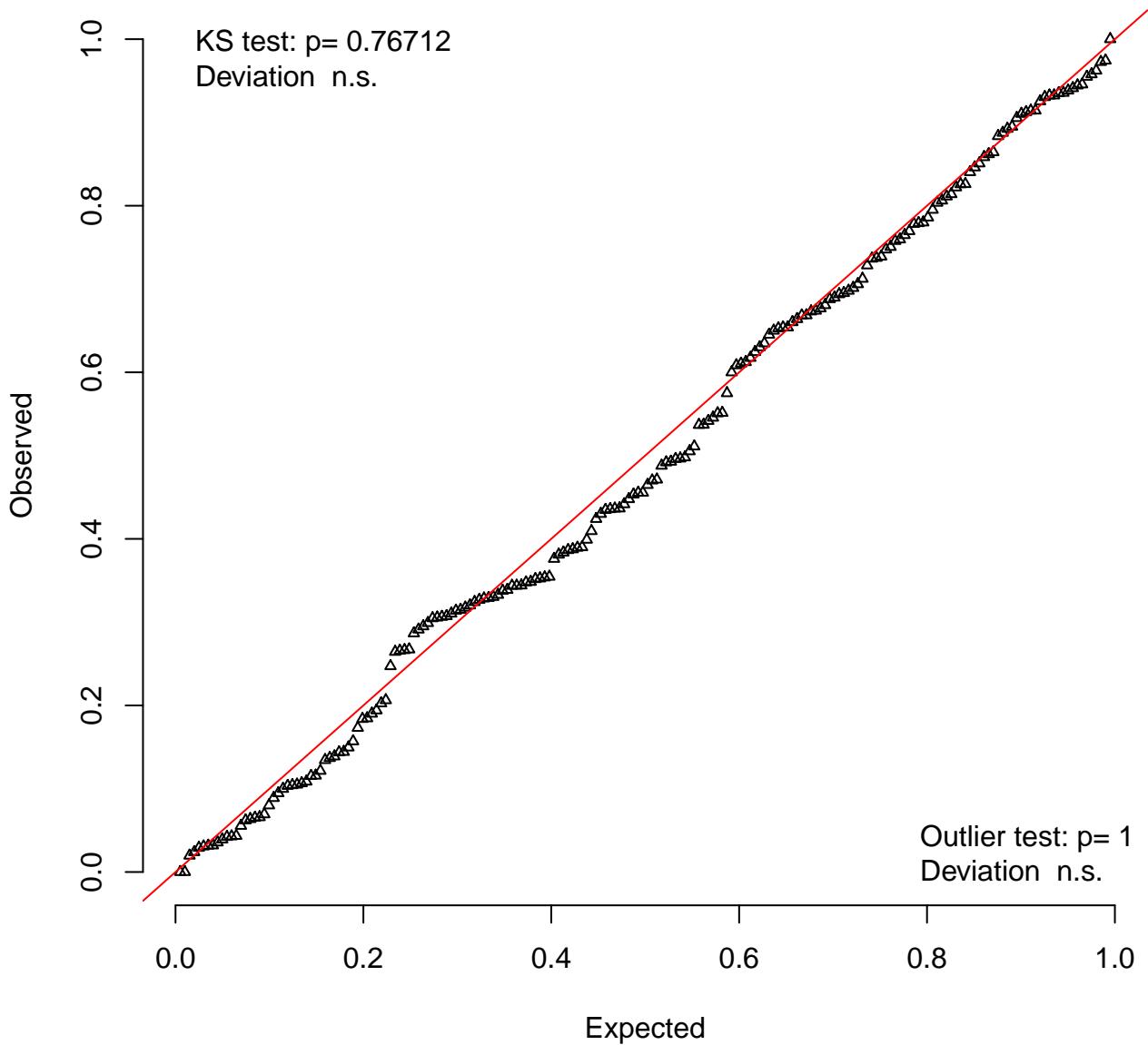


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

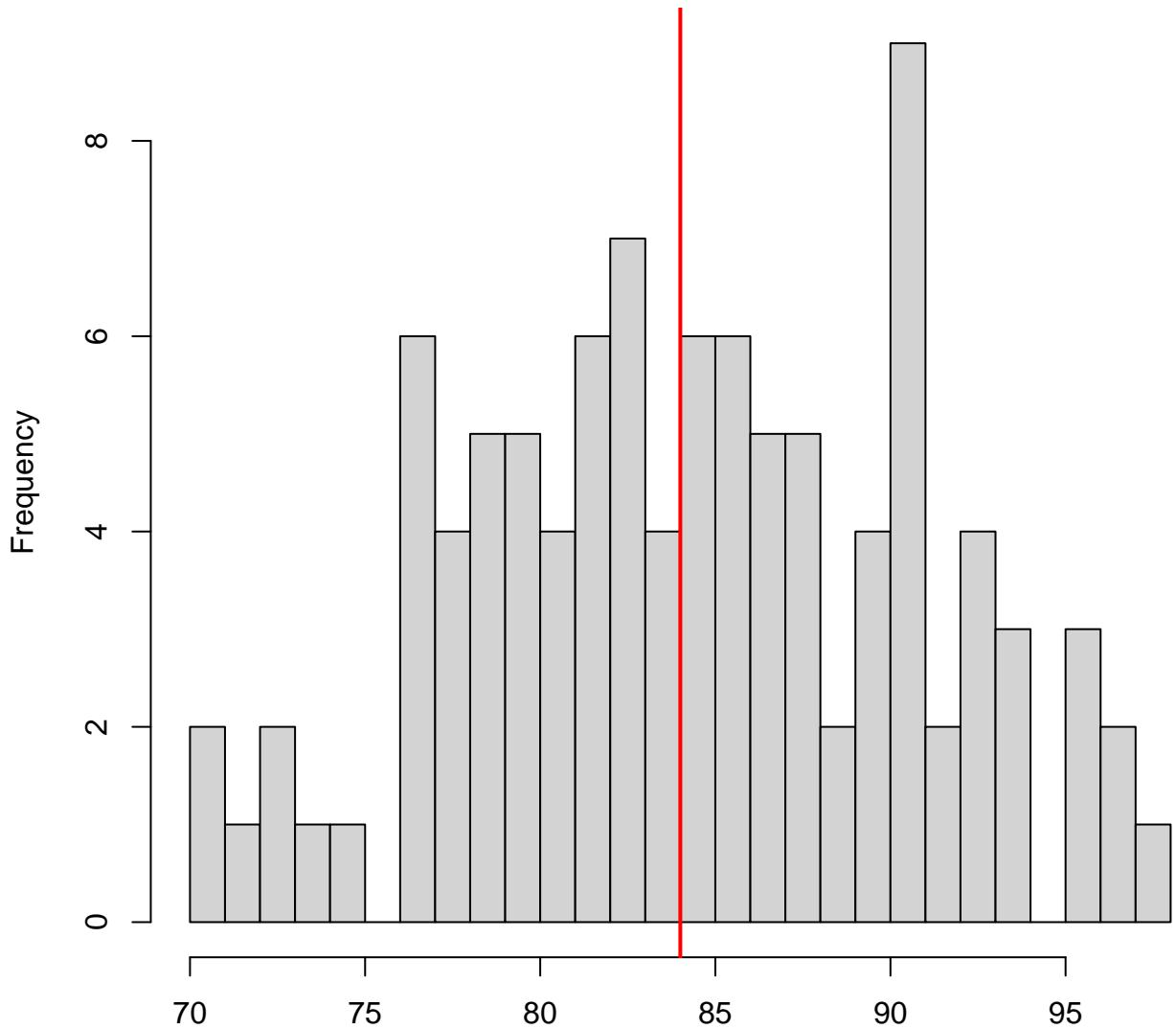


Simulated values, red line = fitted model. p-value (two.sided) = 0.96

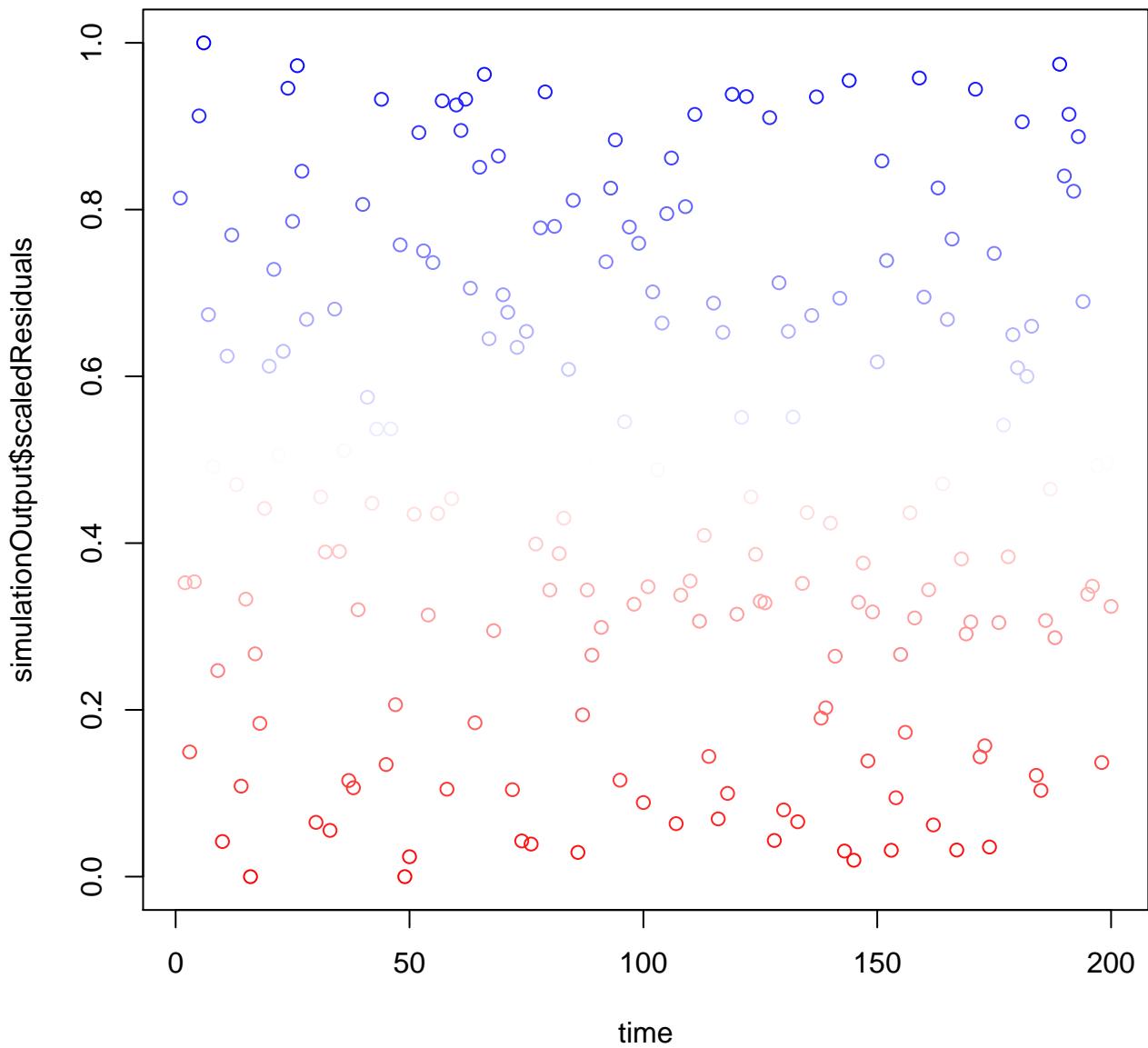
QQ plot residuals

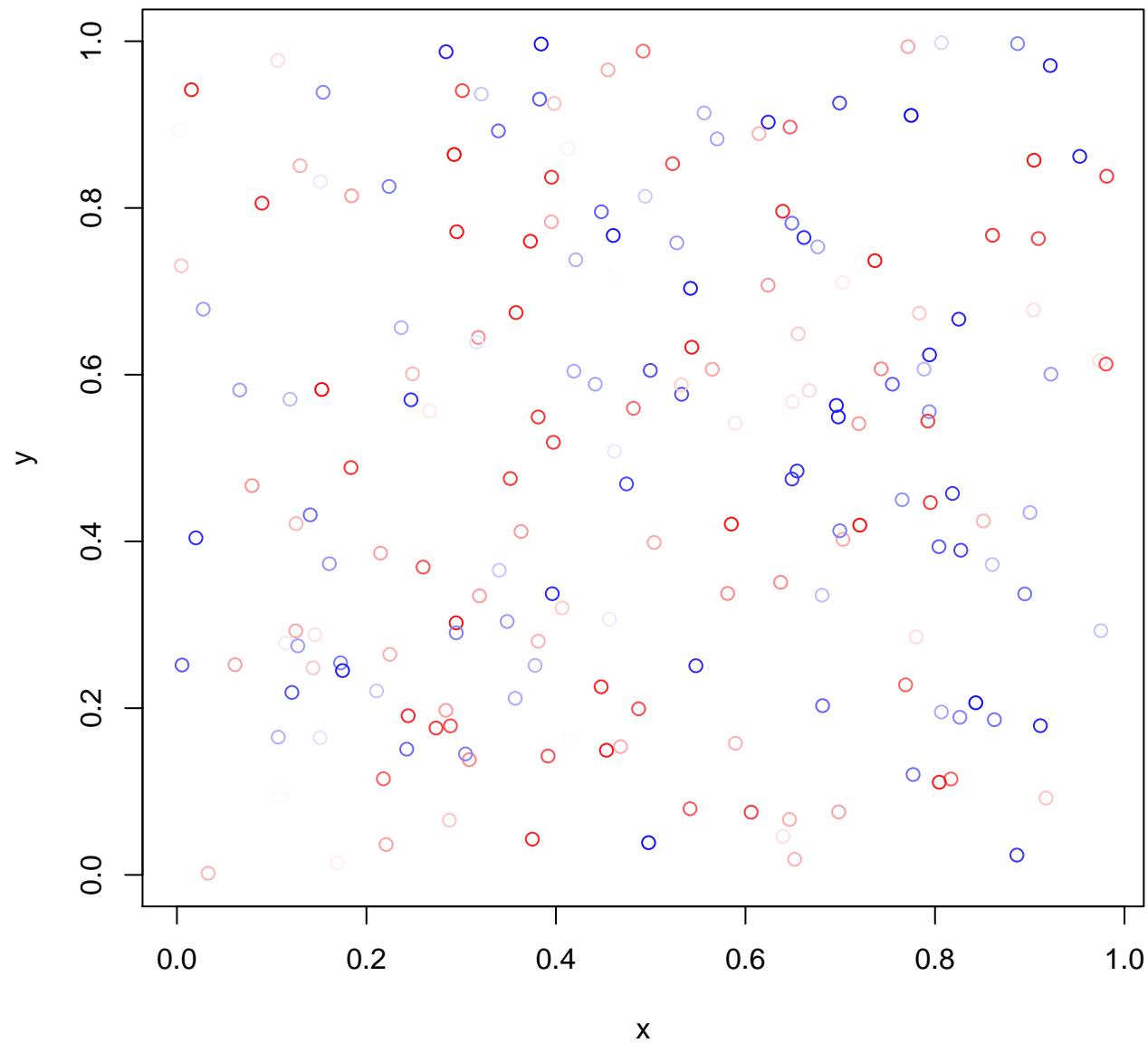


DHARMA zero-inflation test via comparison to expected zeros with simulation under H0 = fitted model

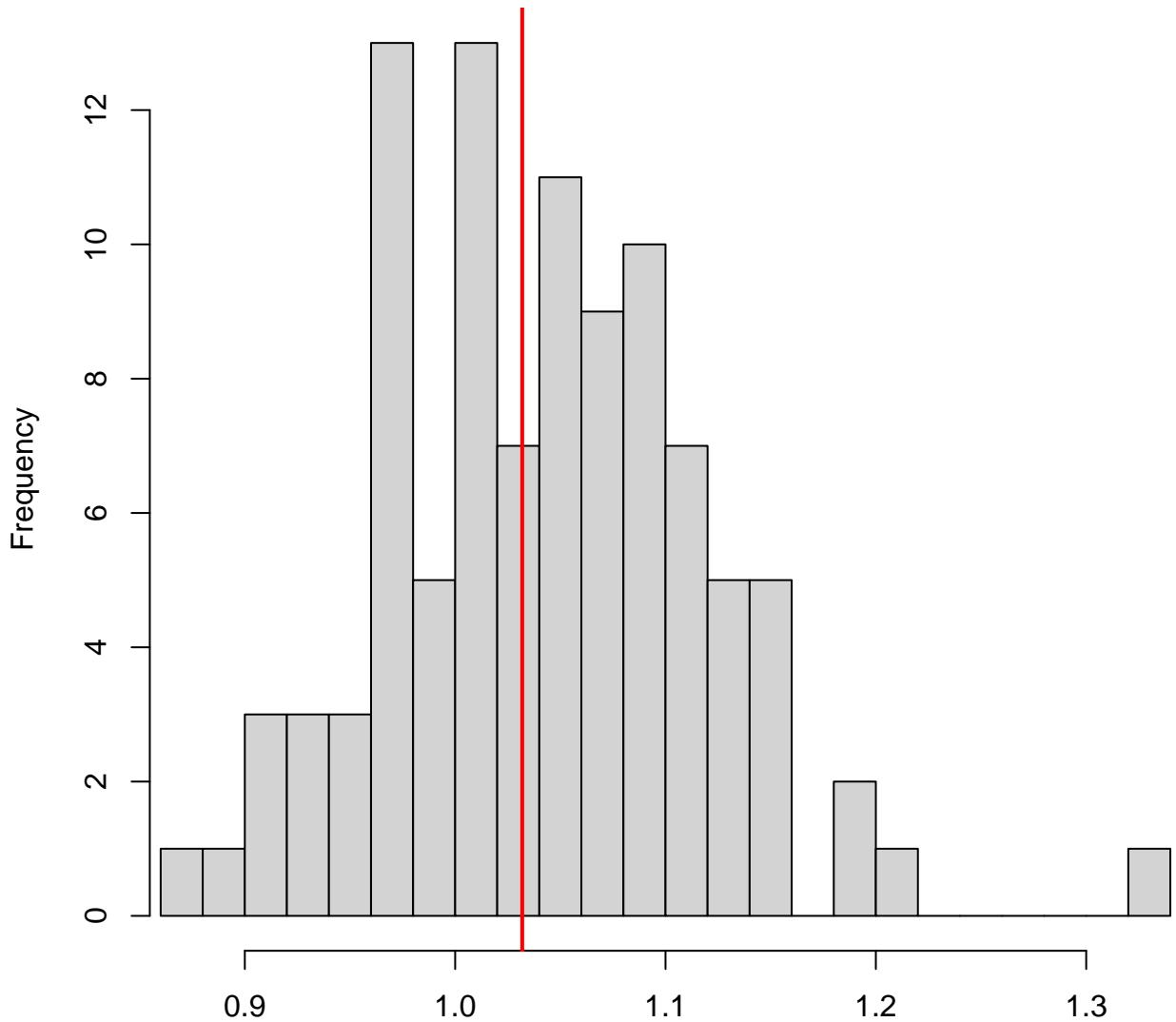


Simulated values, red line = fitted model. p-value (two.sided) = 0.96



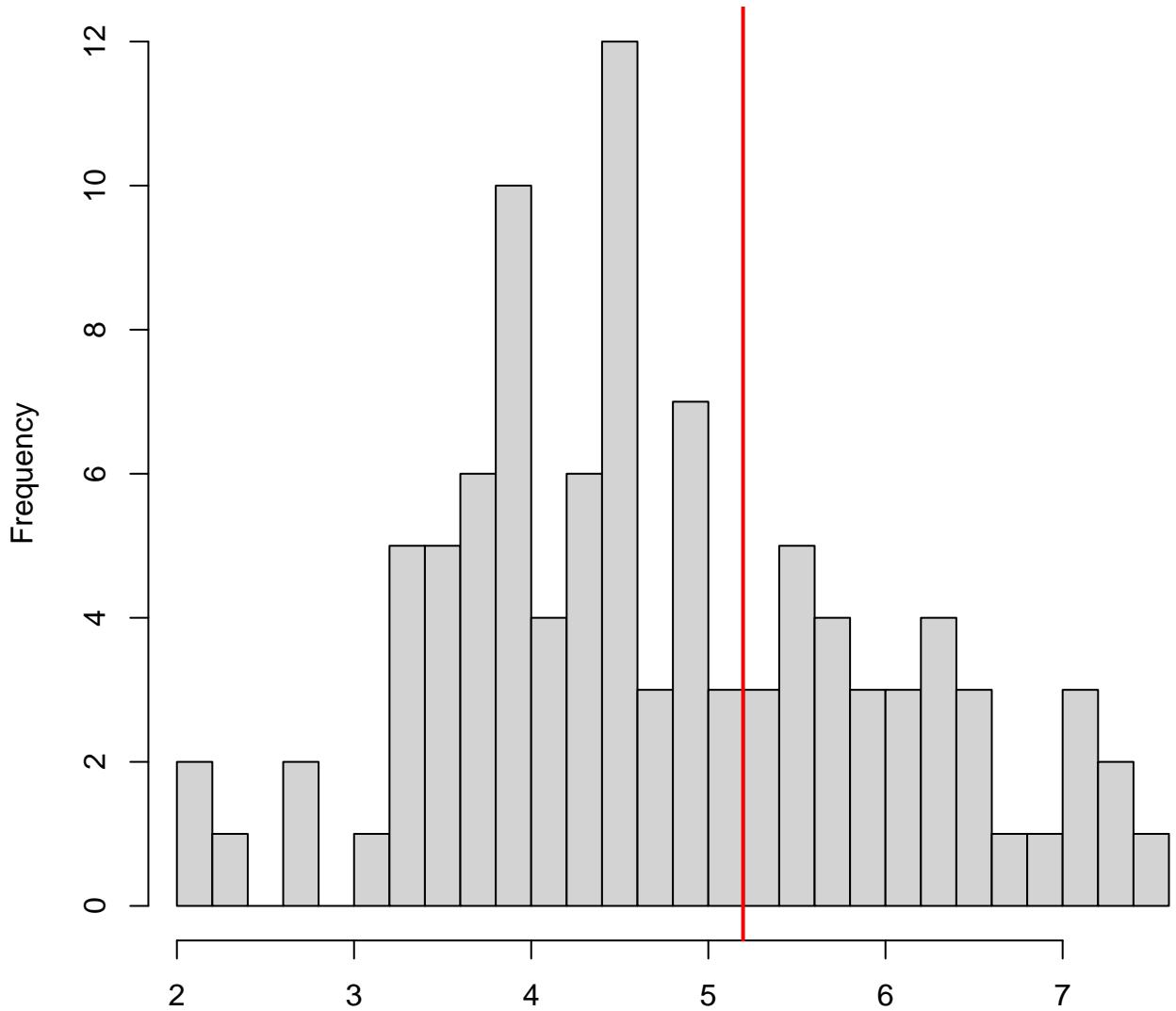


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.96

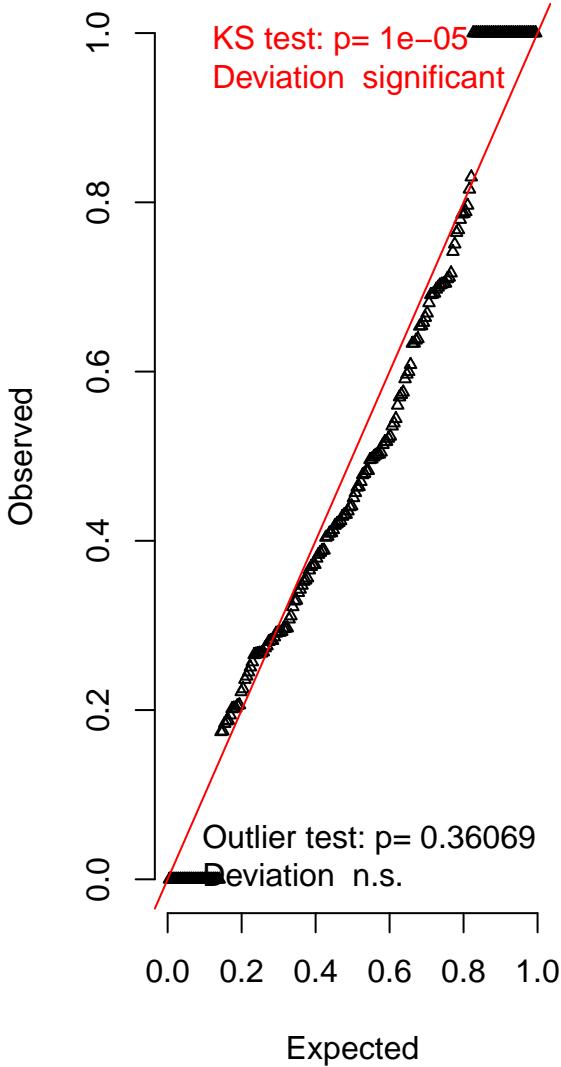
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



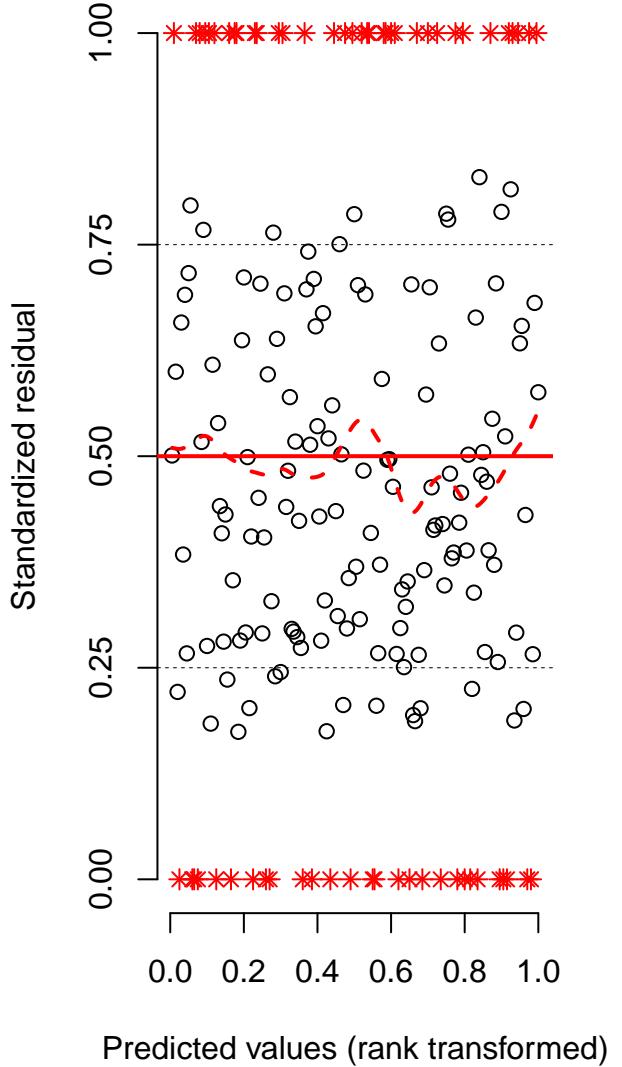
Simulated values, red line = fitted model. p-value (two.sided) = 0.66

DHARMA scaled residual plots

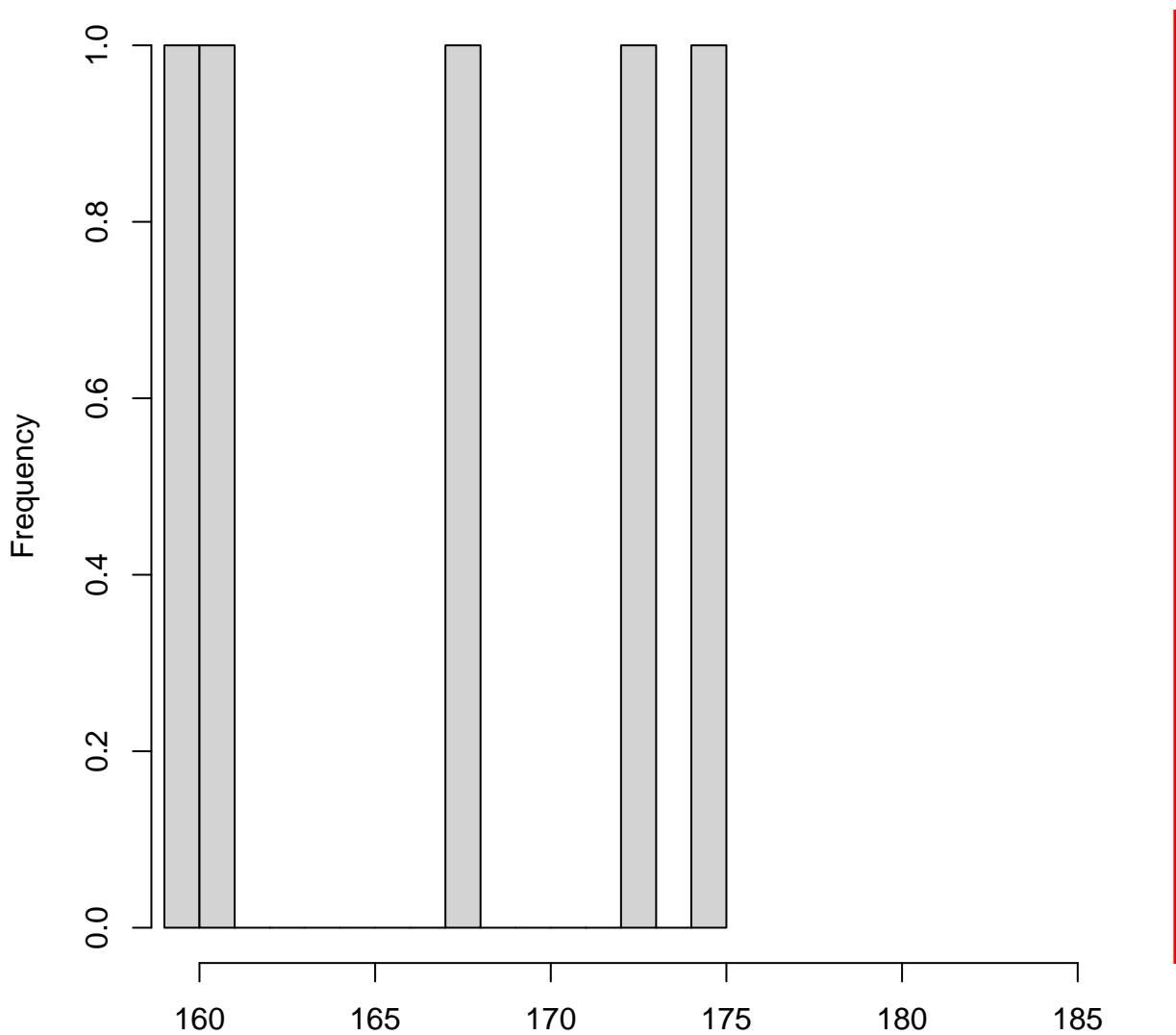
QQ plot residuals



Residual vs. predicted lines should match

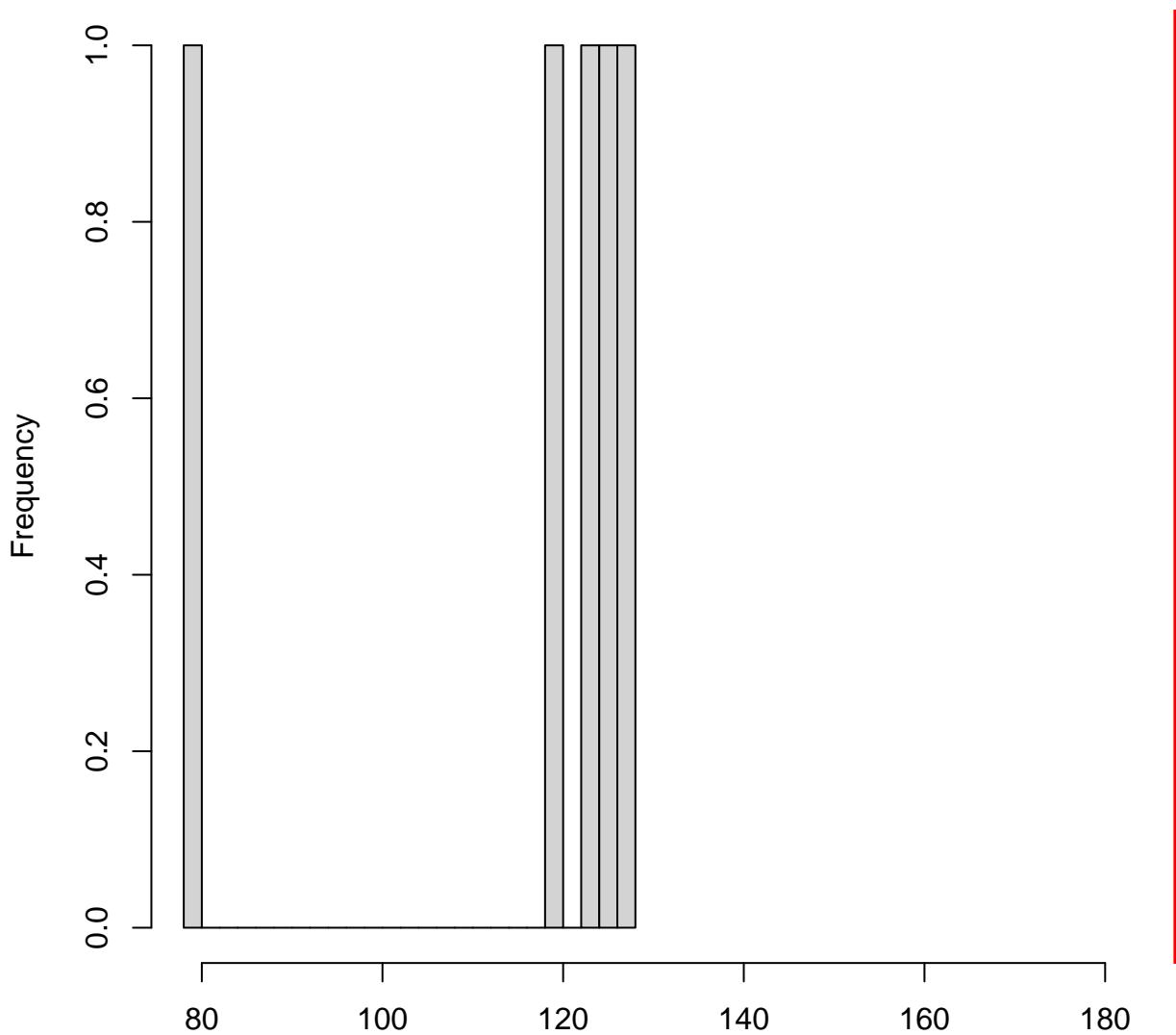


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



Simulated values, red line = fitted model. p-value (two.sided) = 0

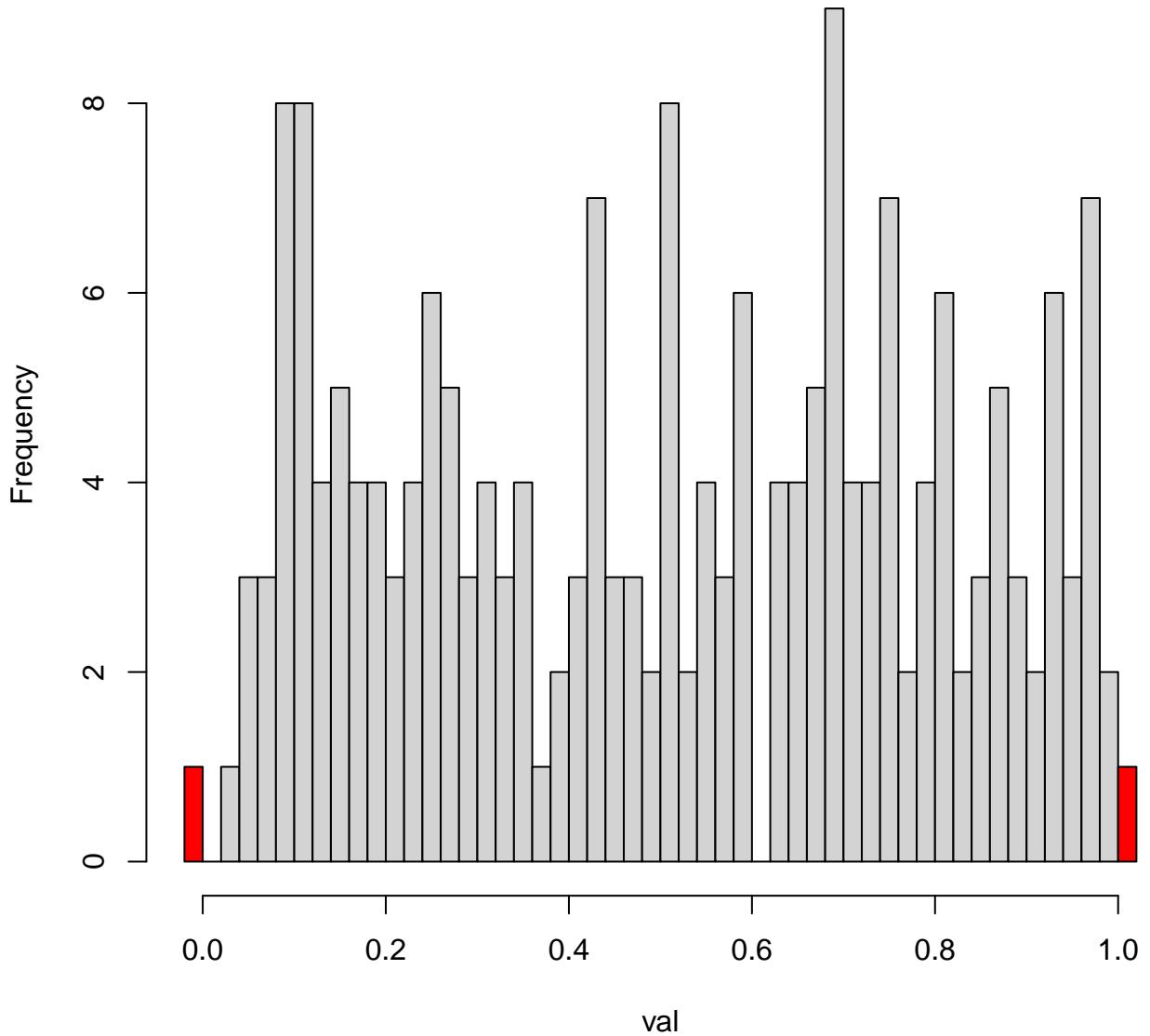
DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



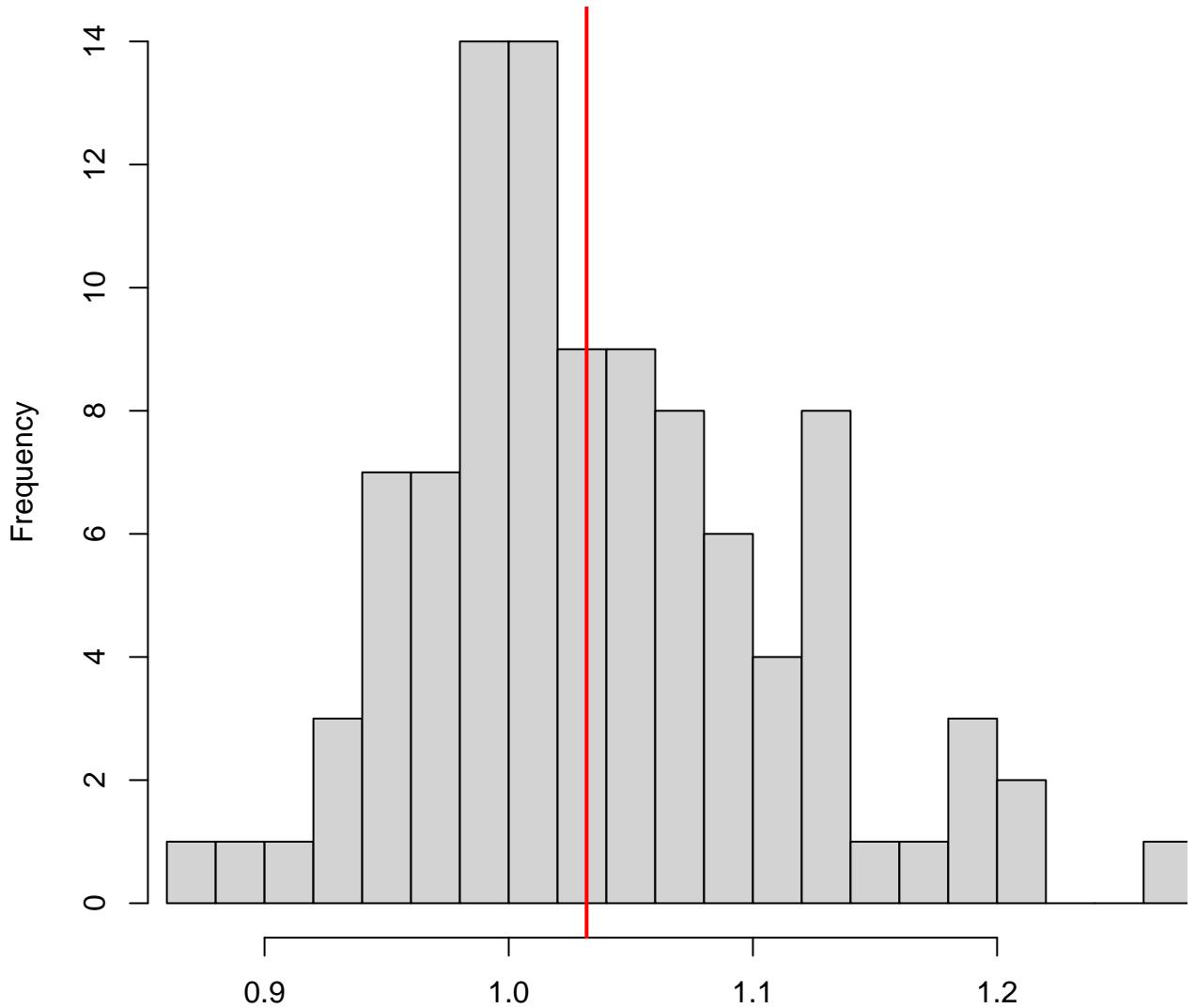
Simulated values, red line = fitted model. p-value (two.sided) = 0

Hist of DHARMa residuals

Outliers are marked red

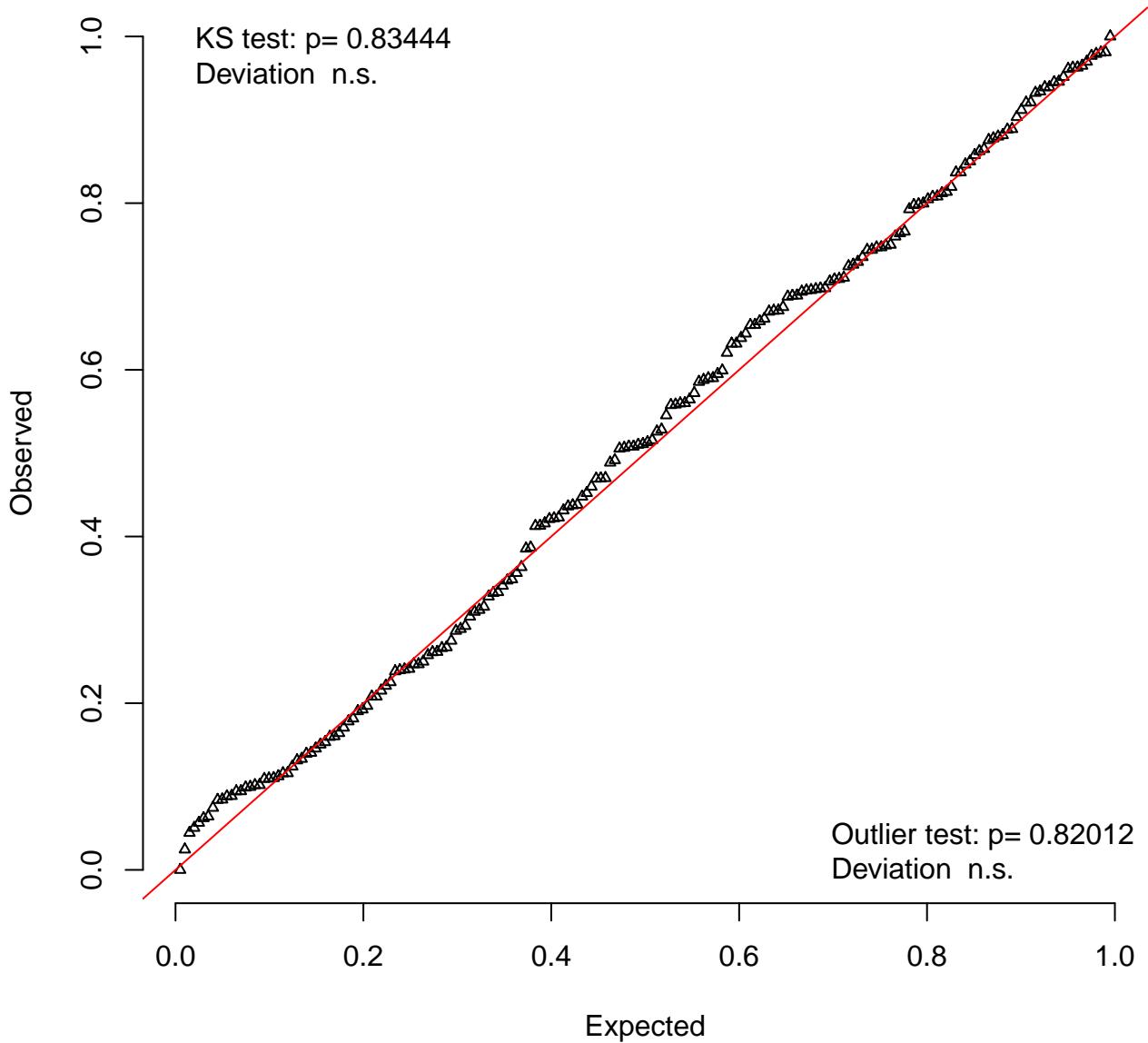


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

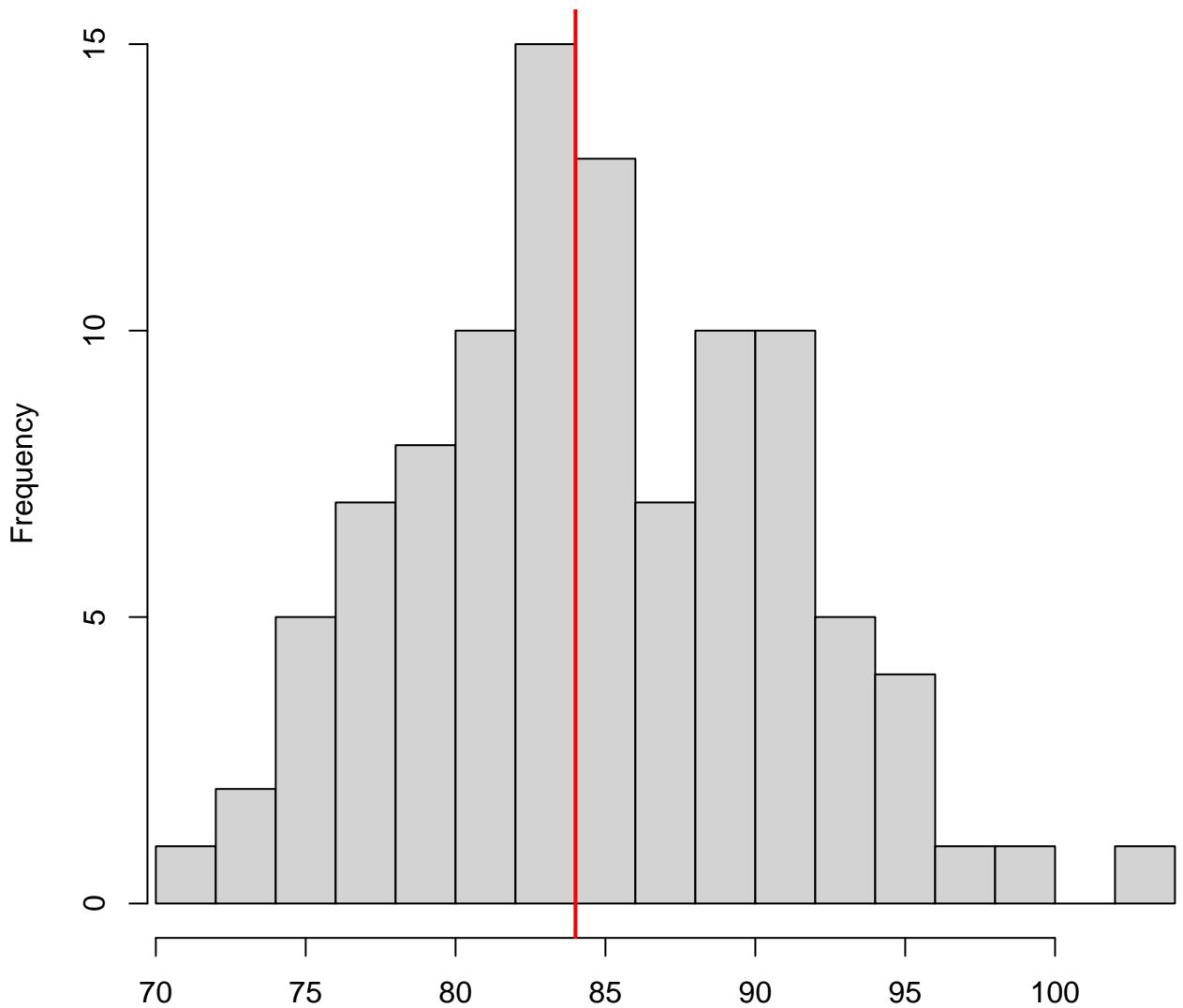


Simulated values, red line = fitted model. p-value (two.sided) = 0.9

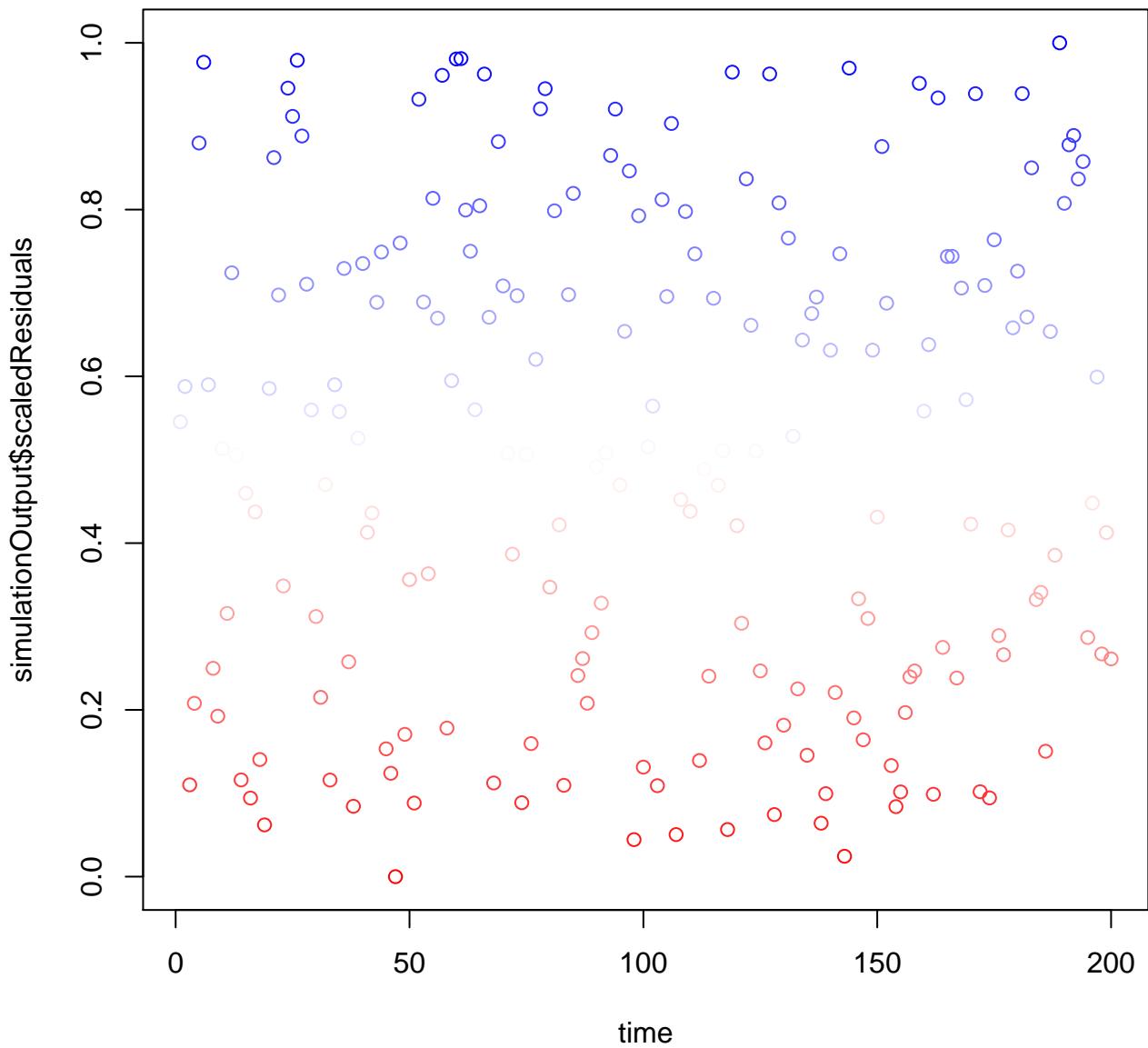
QQ plot residuals

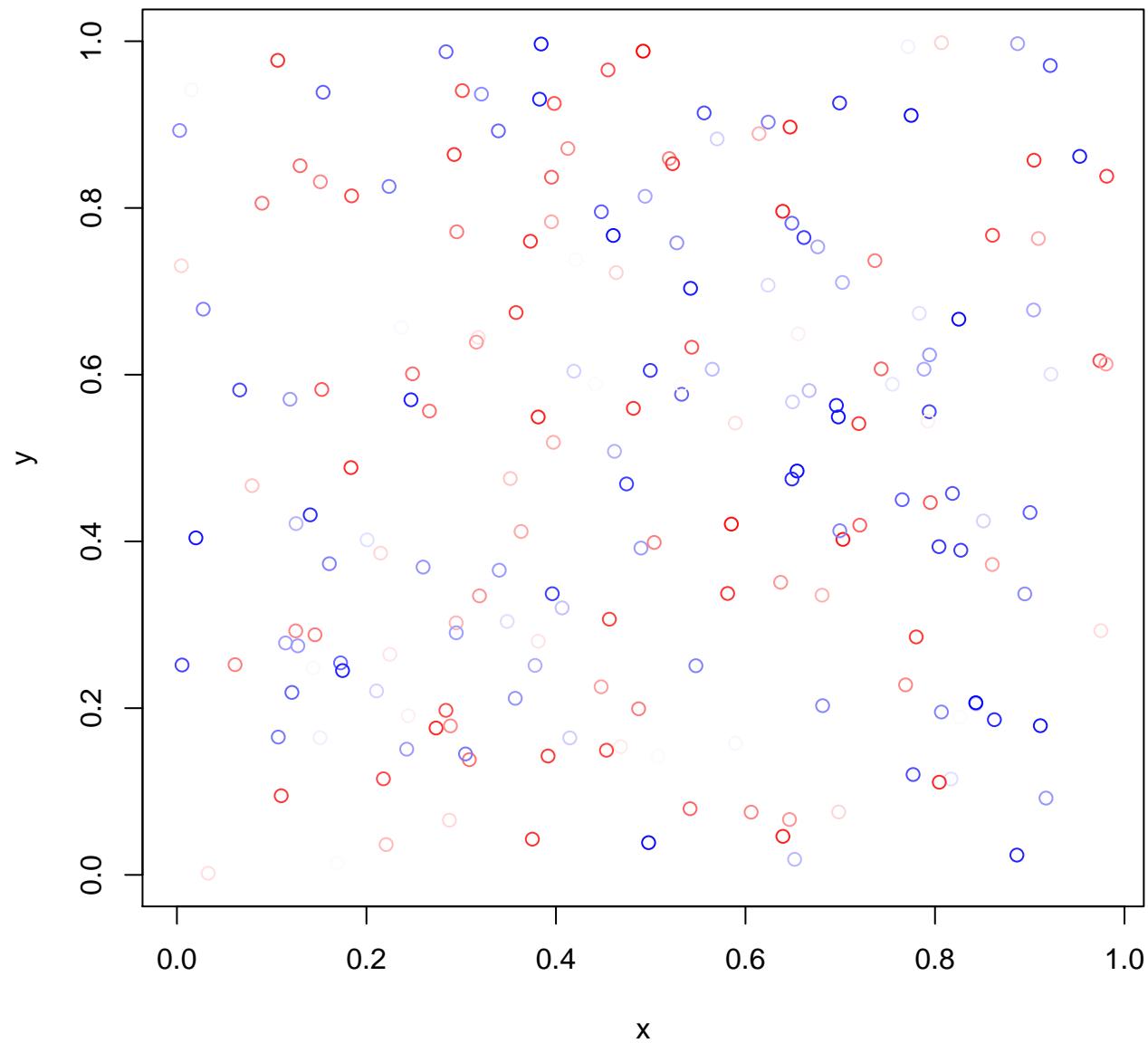


DHARMA zero-inflation test via comparison to expected zeros with simulation under $H_0 =$ fitted model

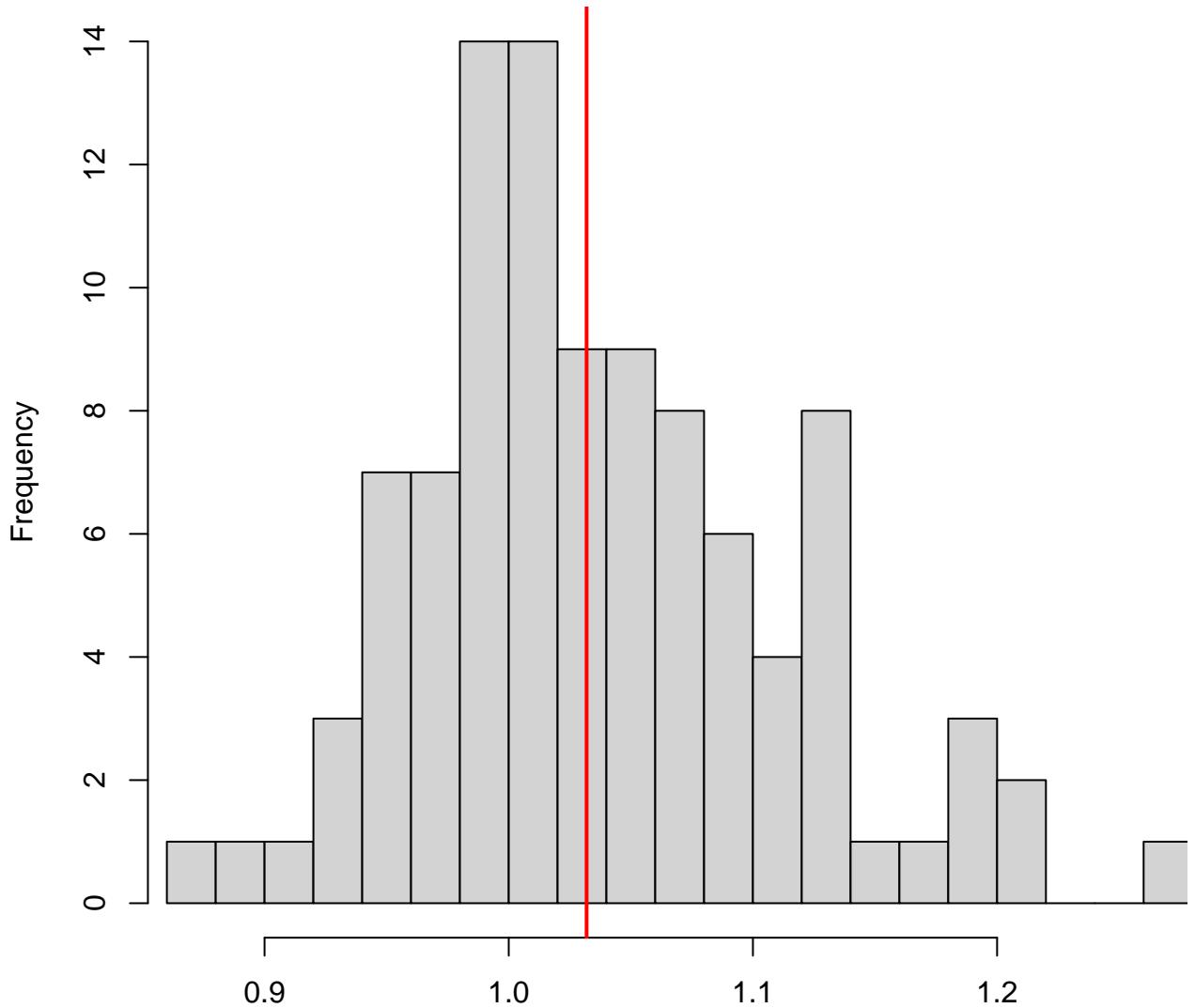


Simulated values, red line = fitted model. p-value (two.sided) = 0.96



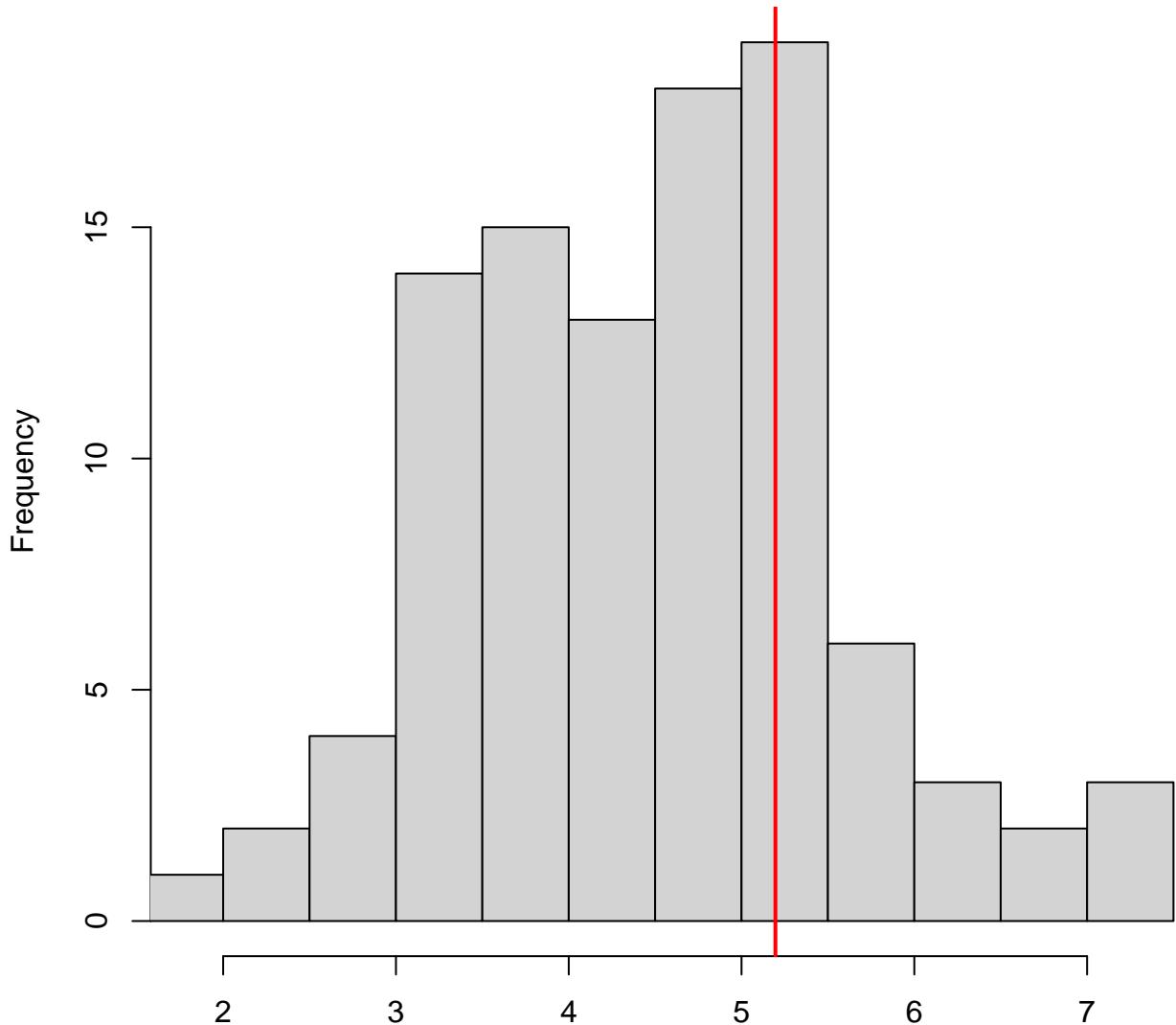


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.9

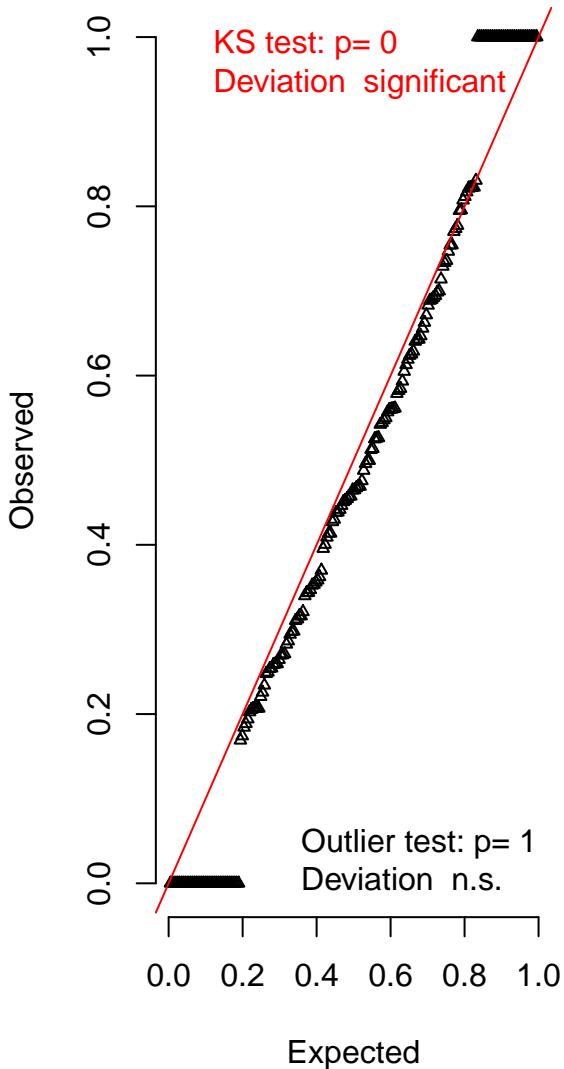
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



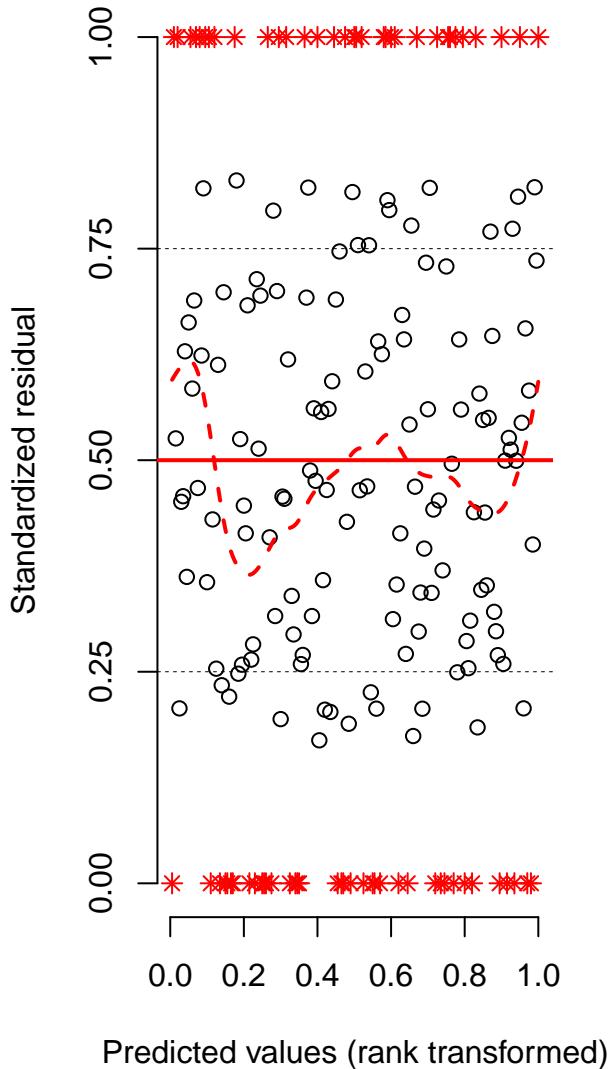
Simulated values, red line = fitted model. p-value (two.sided) = 0.48

DHARMA scaled residual plots

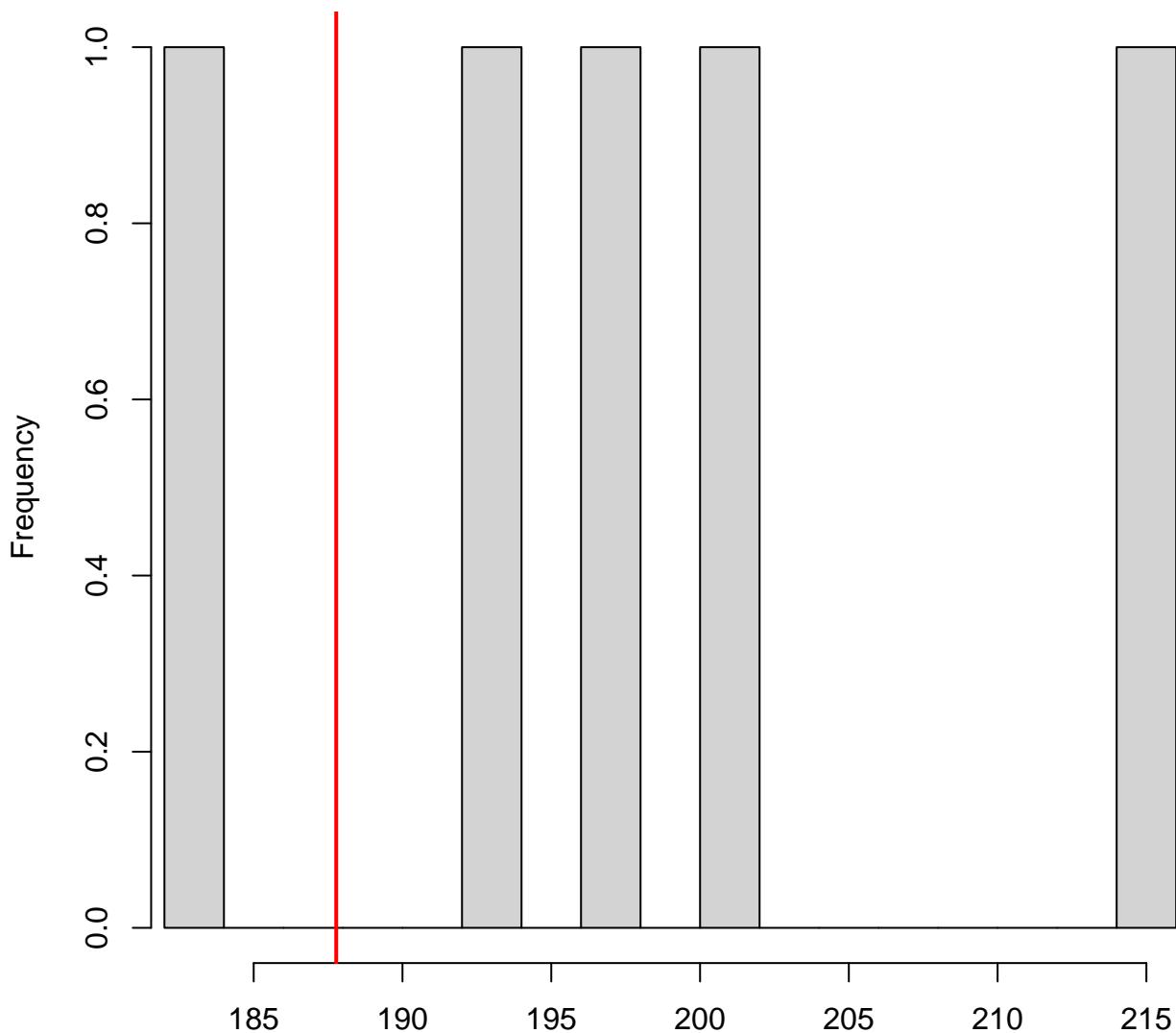
QQ plot residuals



Residual vs. predicted lines should match

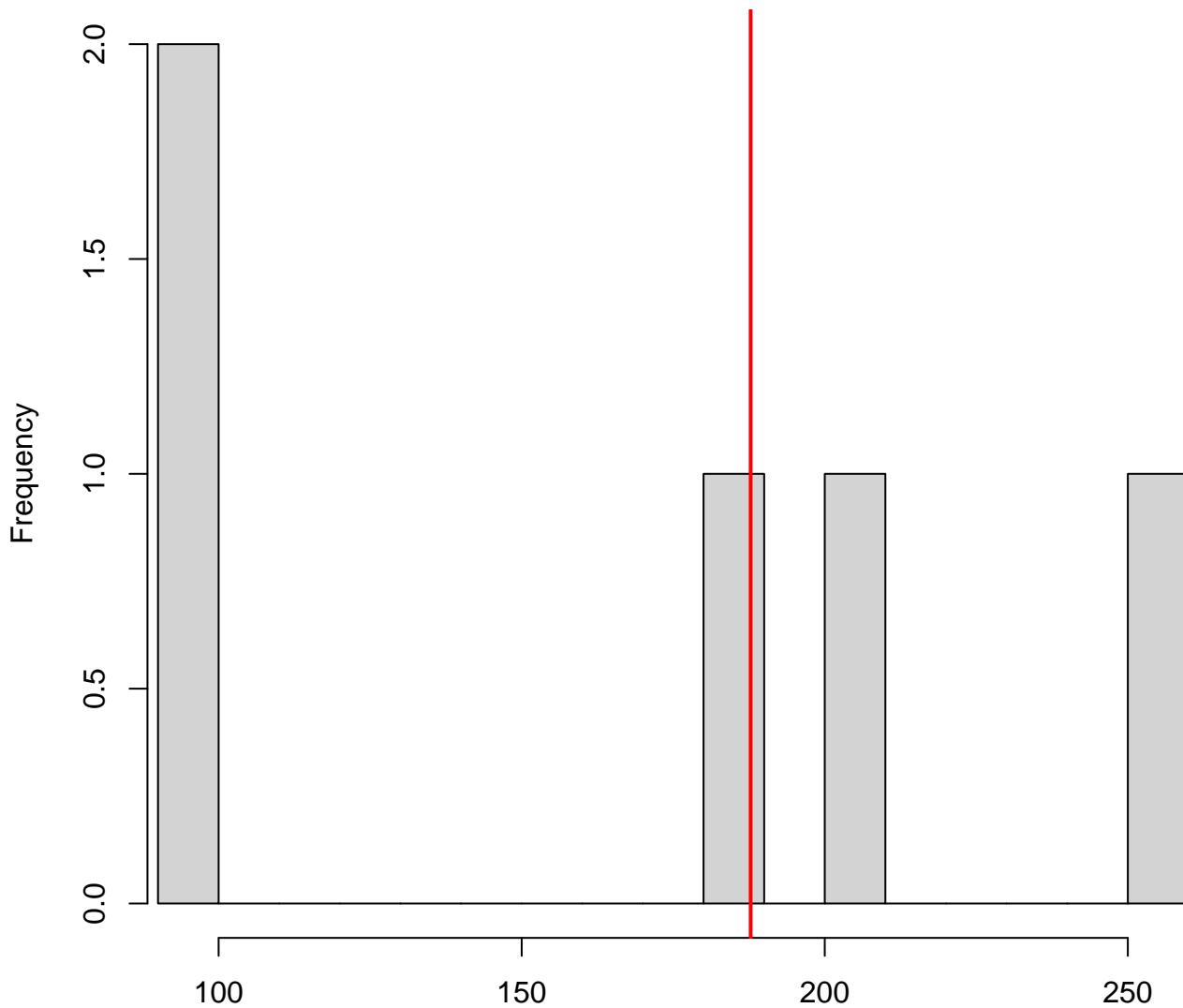


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



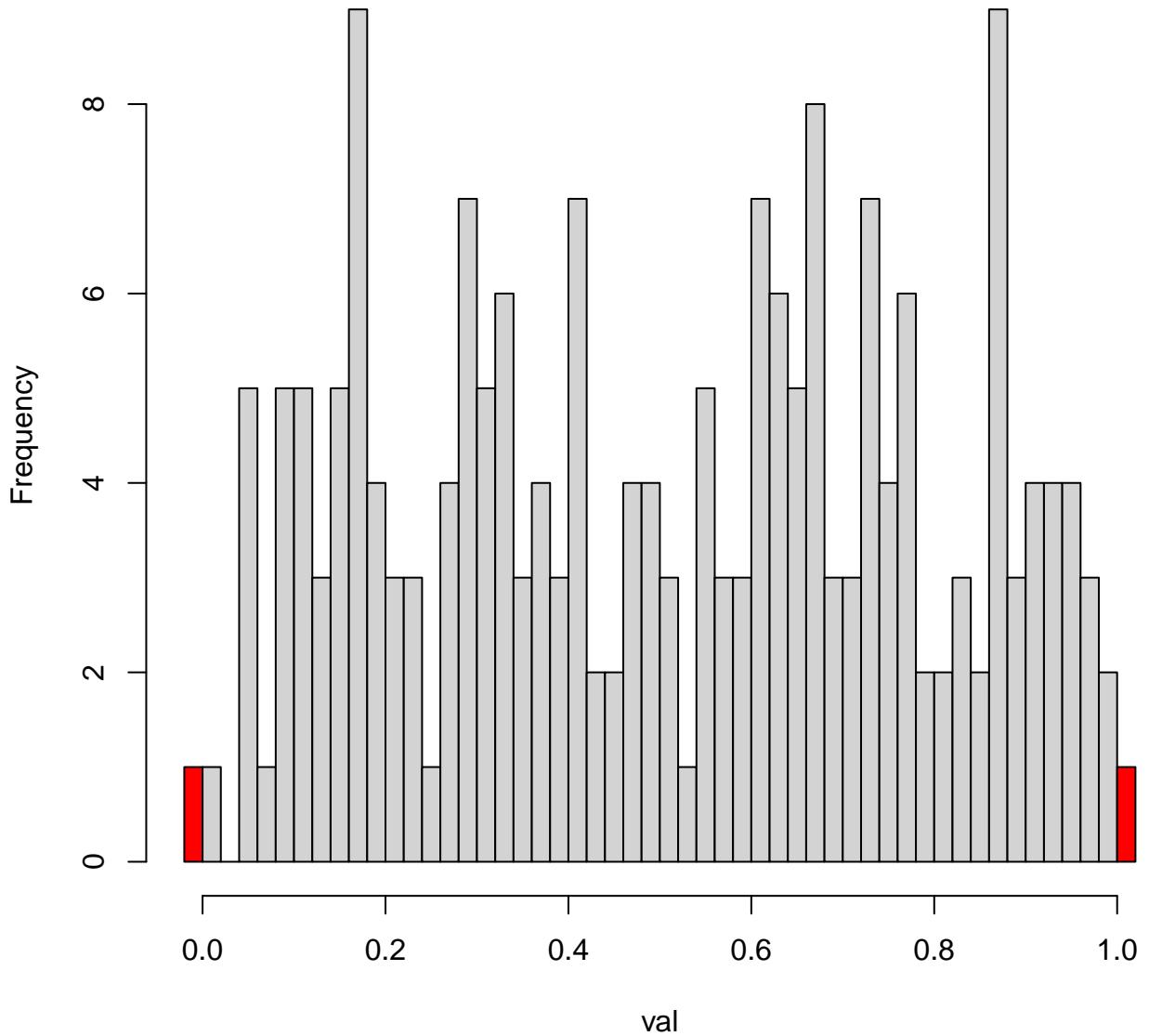
Simulated values, red line = fitted model. p-value (two.sided) = 0.4

DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted

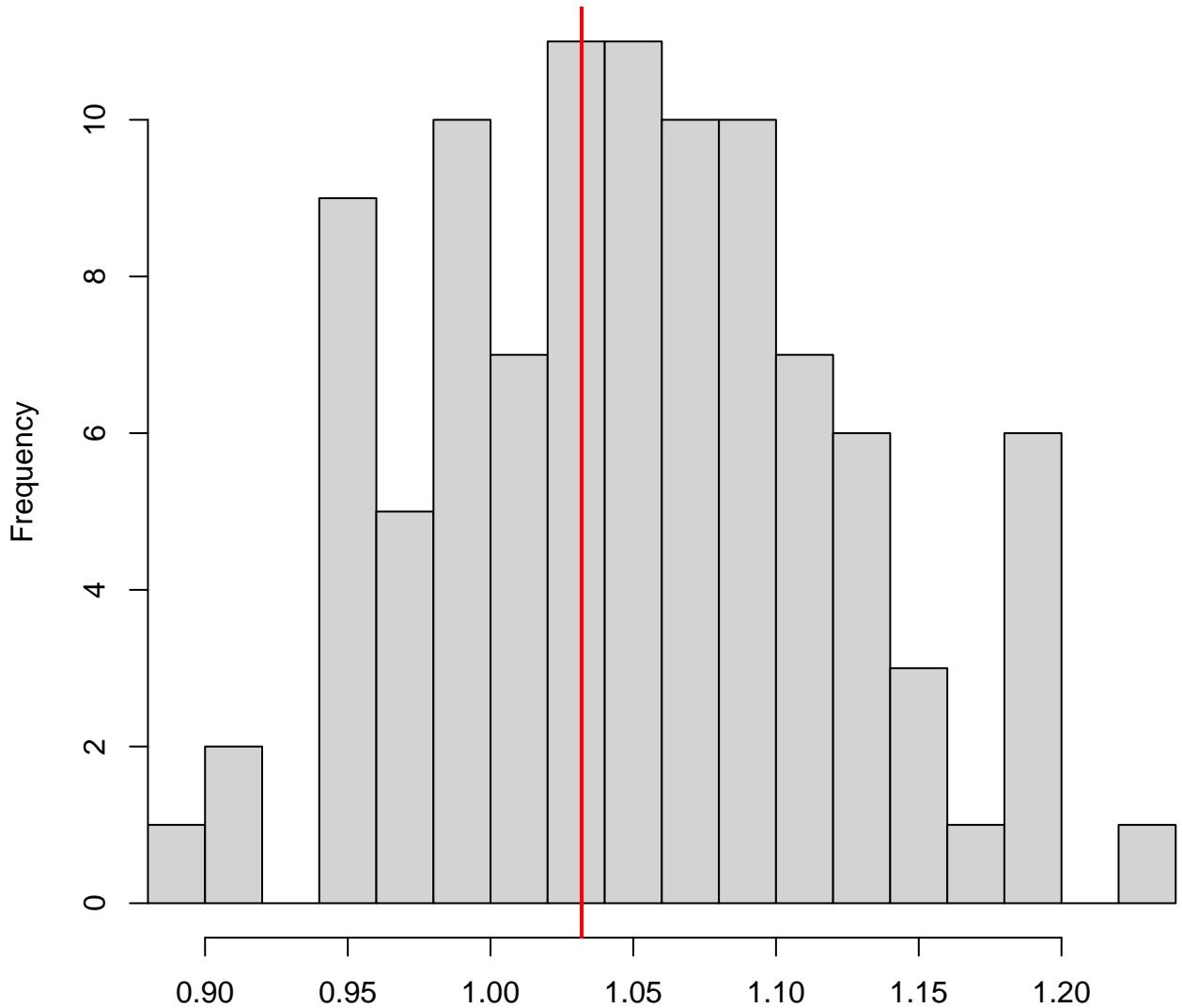


Simulated values, red line = fitted model. p-value (two.sided) = 0.8

Hist of DHARMA residuals
Outliers are marked red

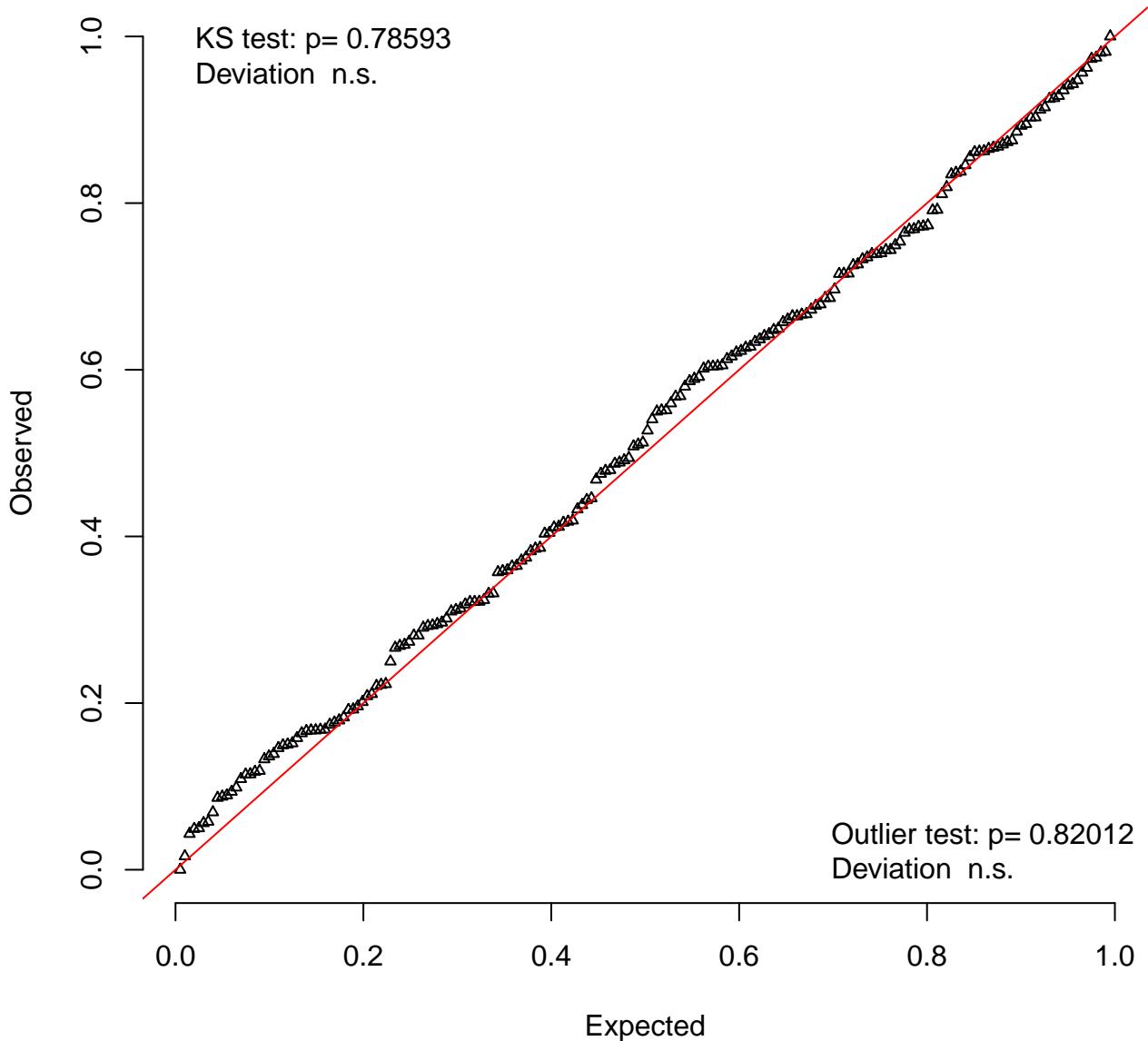


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

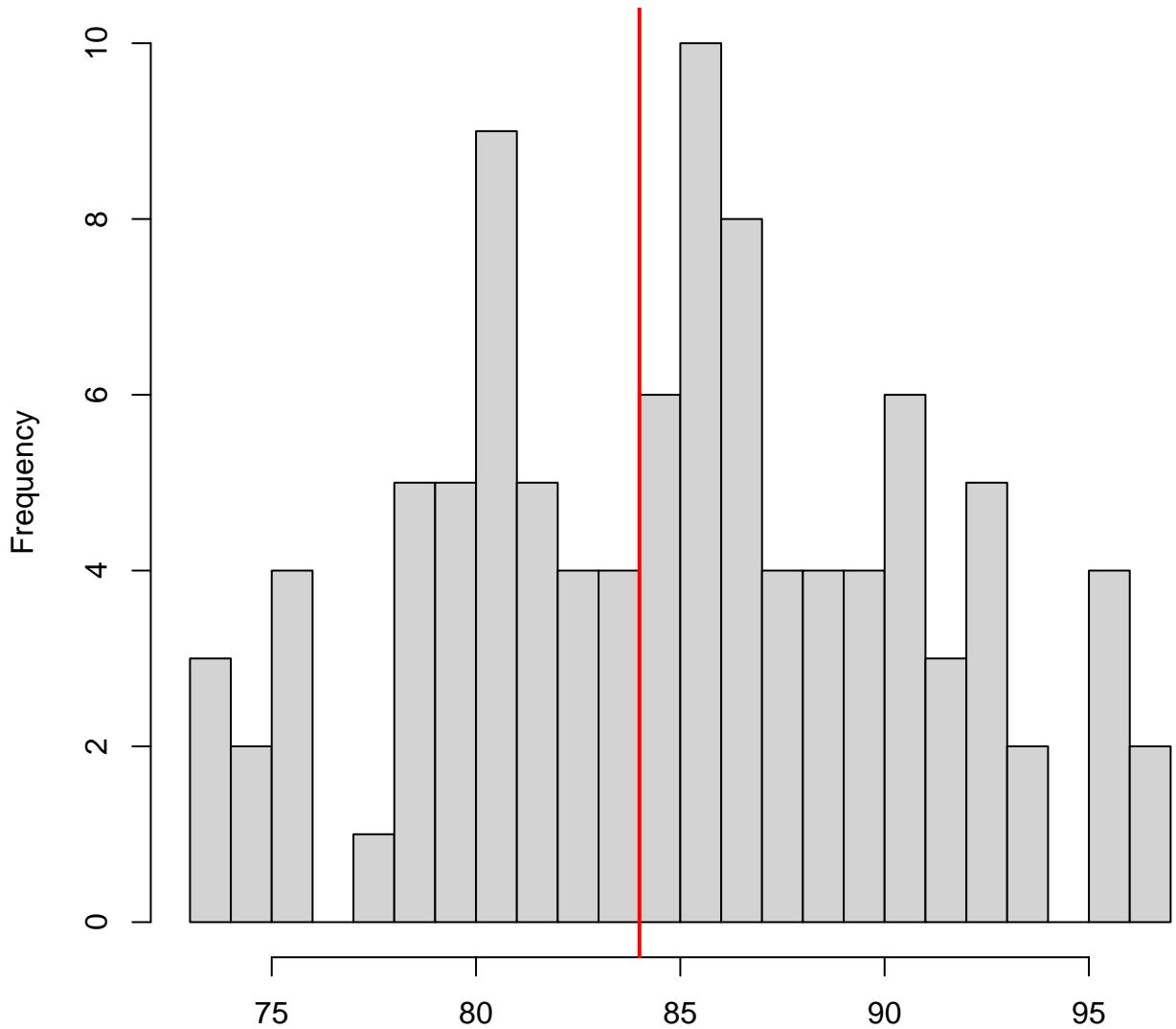


Simulated values, red line = fitted model. p-value (two.sided) = 0.8

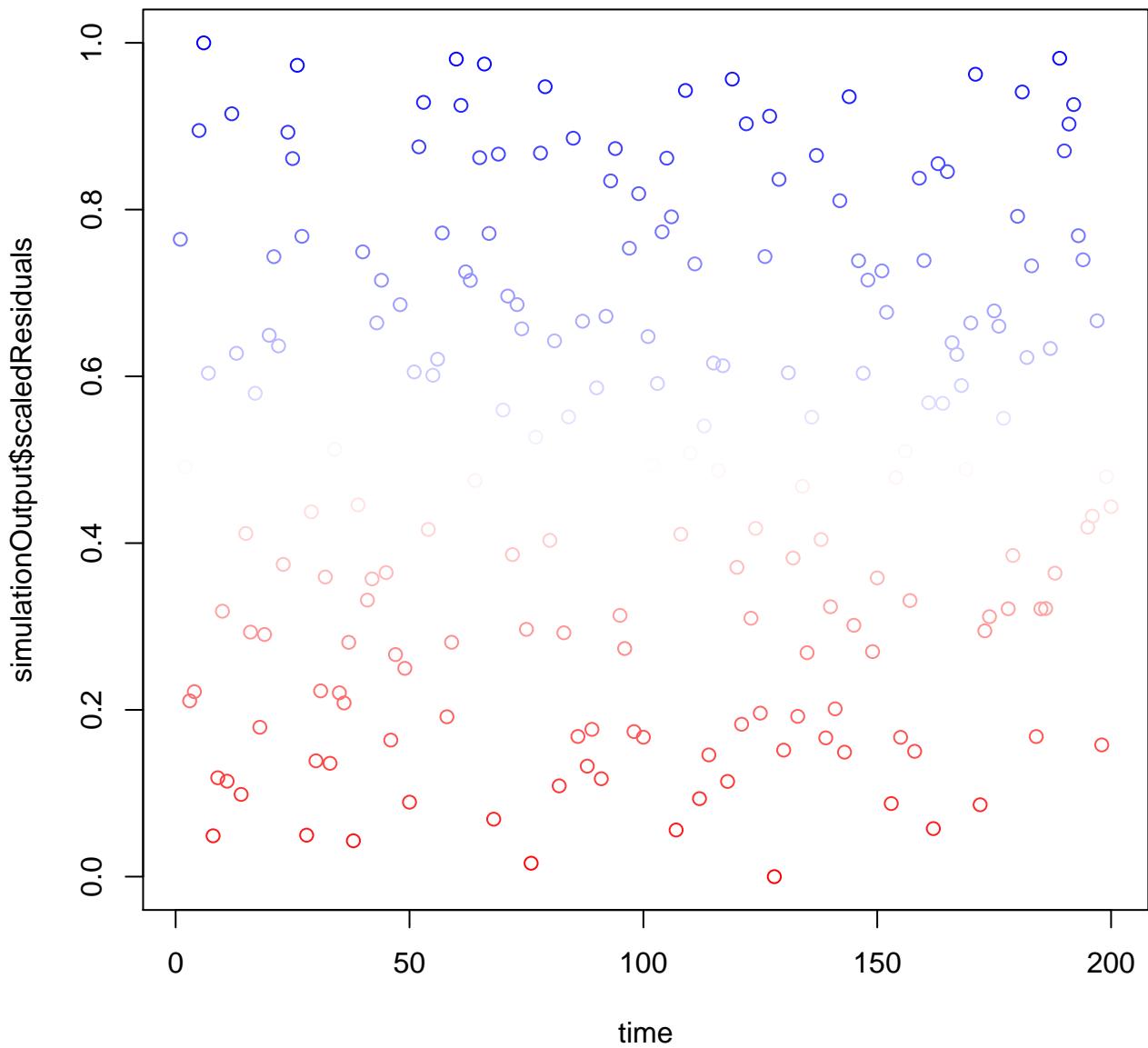
QQ plot residuals

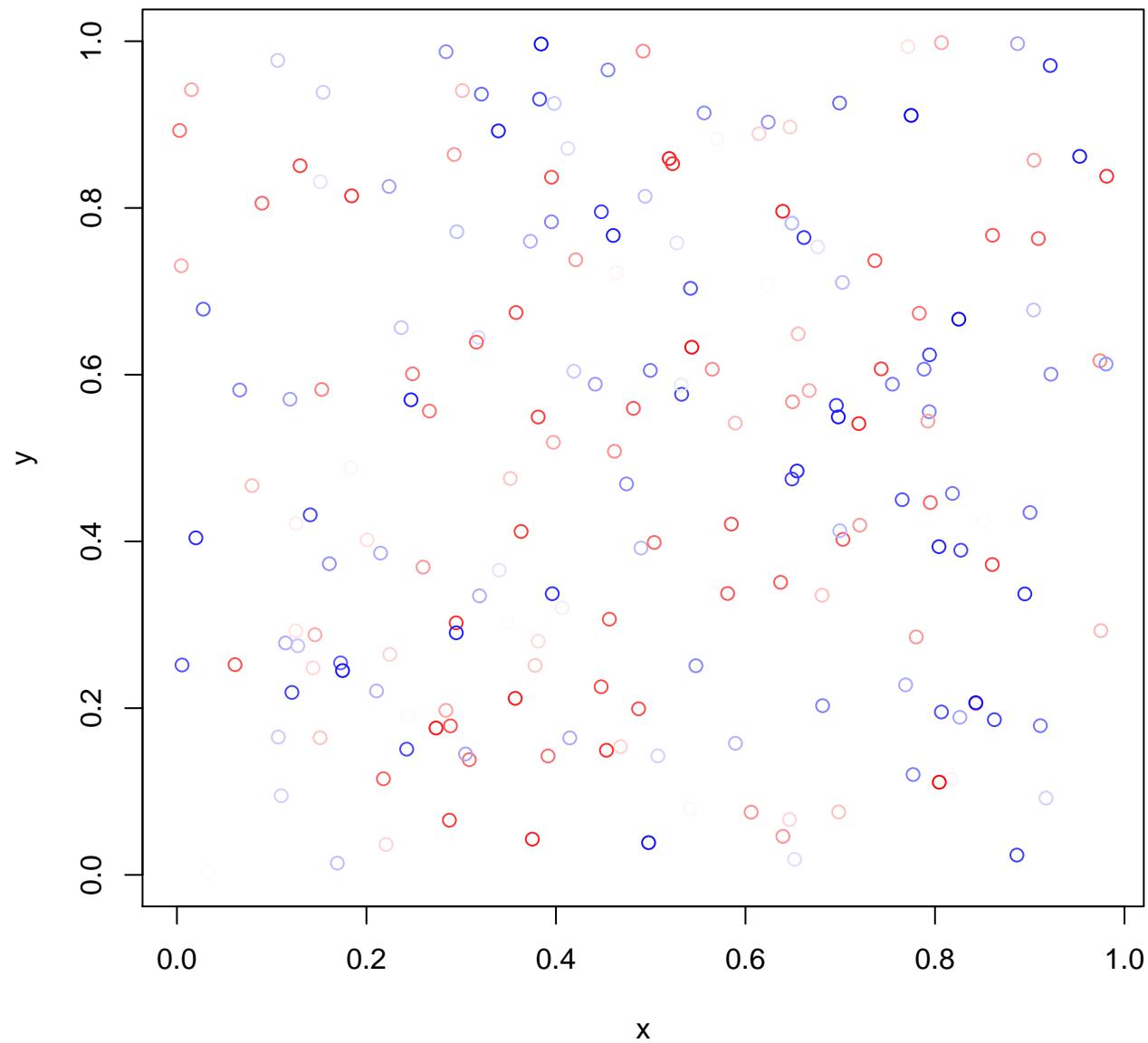


DHARMA zero-inflation test via comparison to expected zeros with simulation under H0 = fitted model

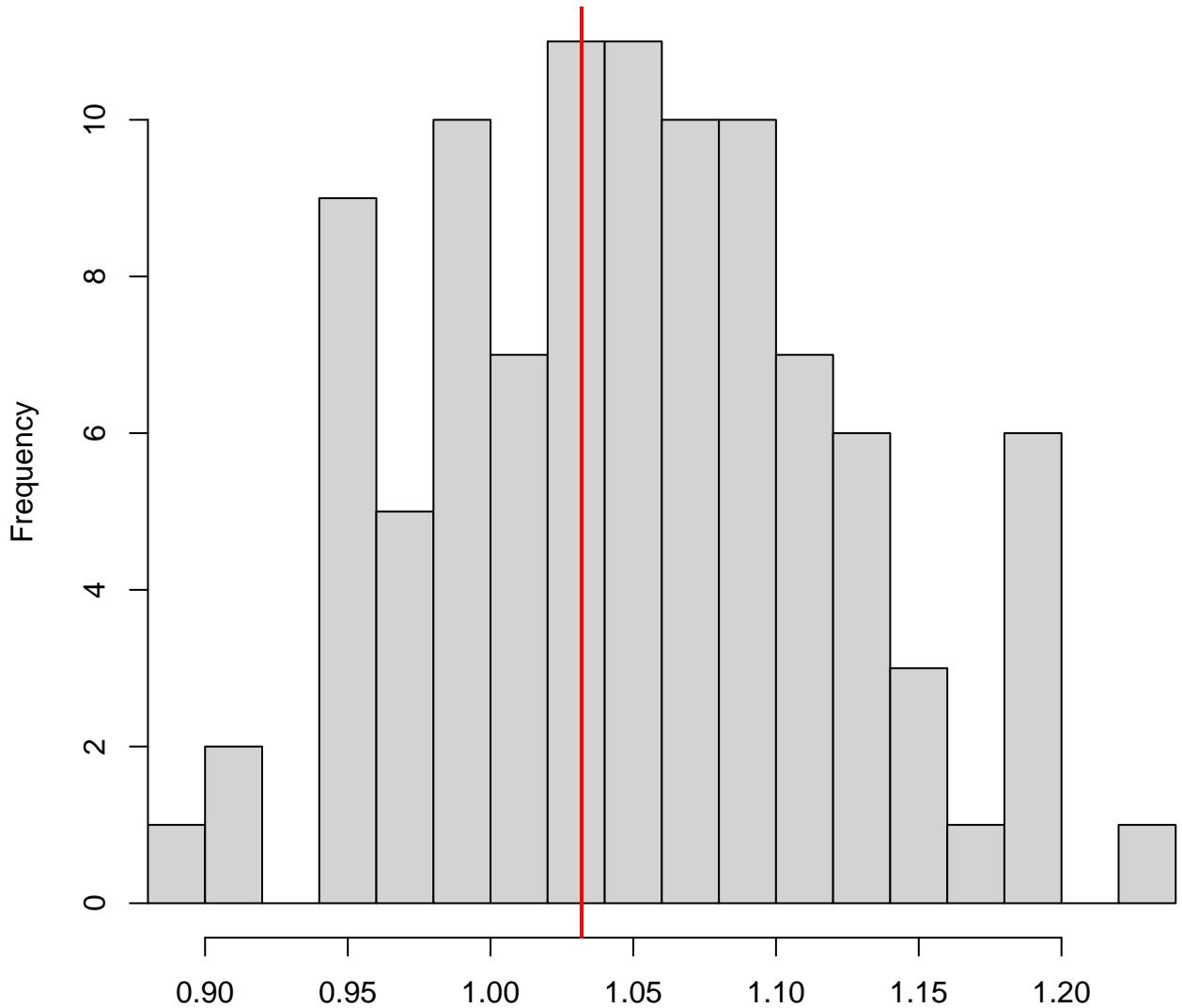


Simulated values, red line = fitted model. p-value (two.sided) = 0.84



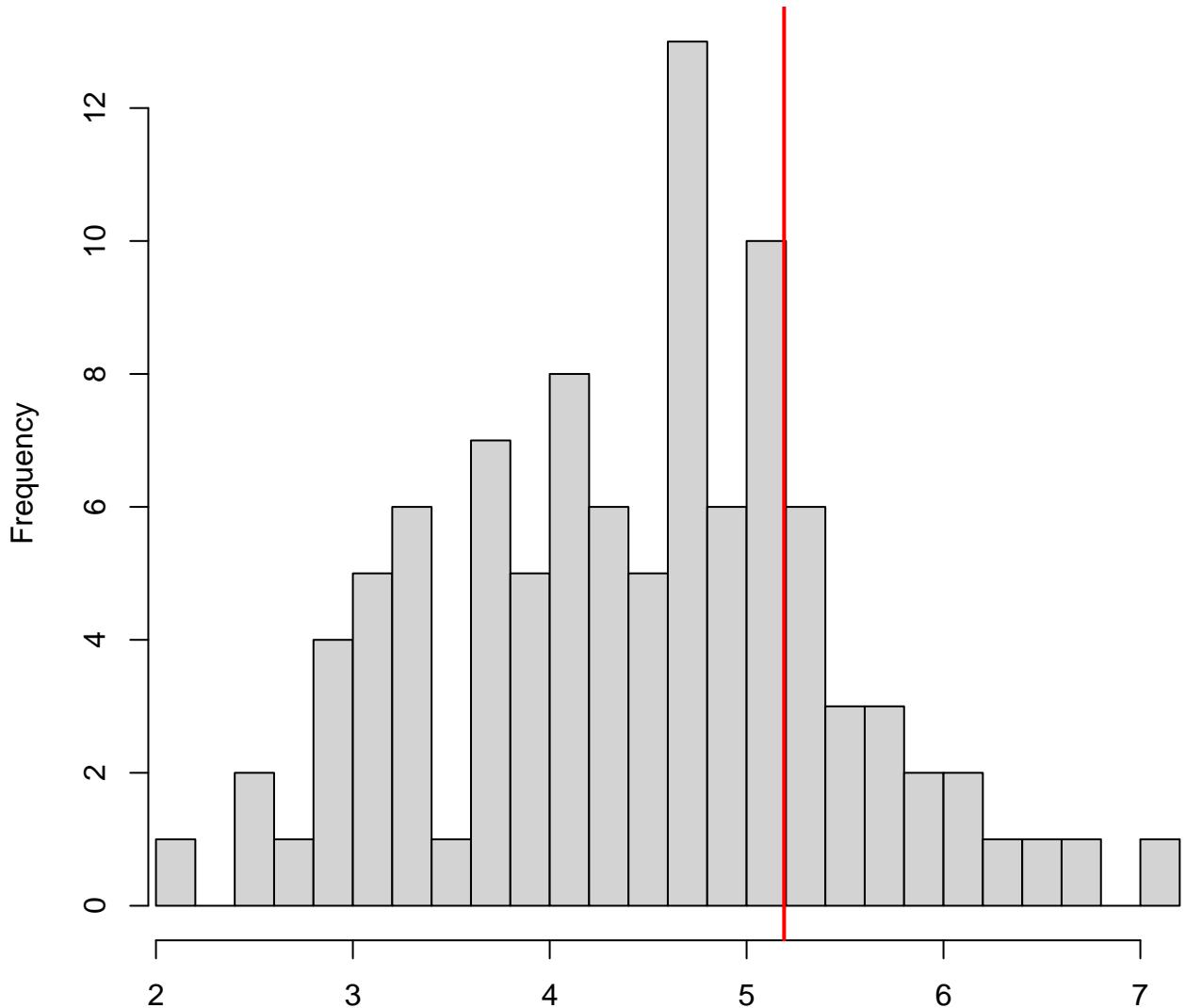


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.8

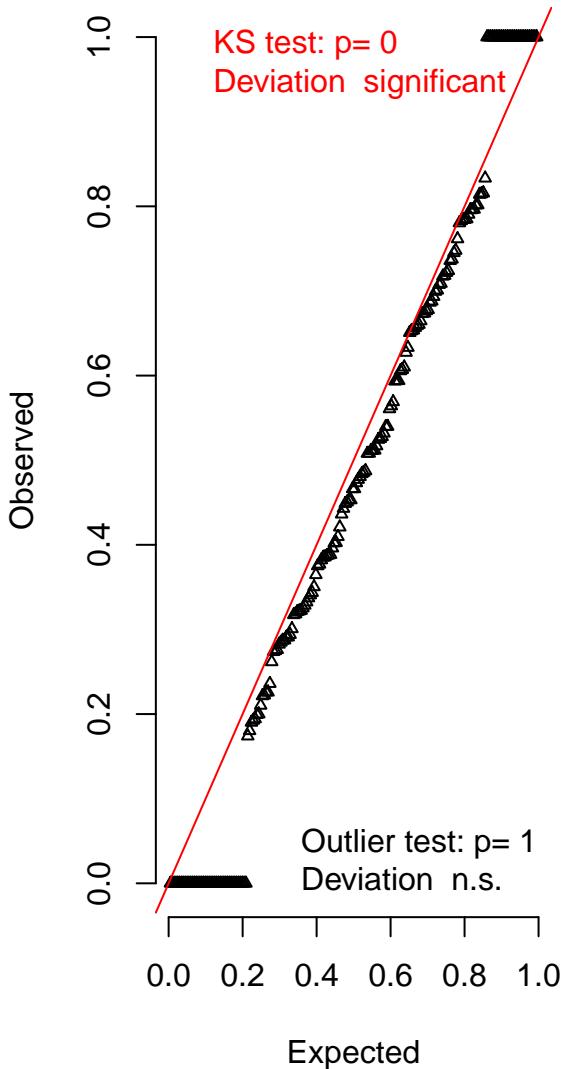
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



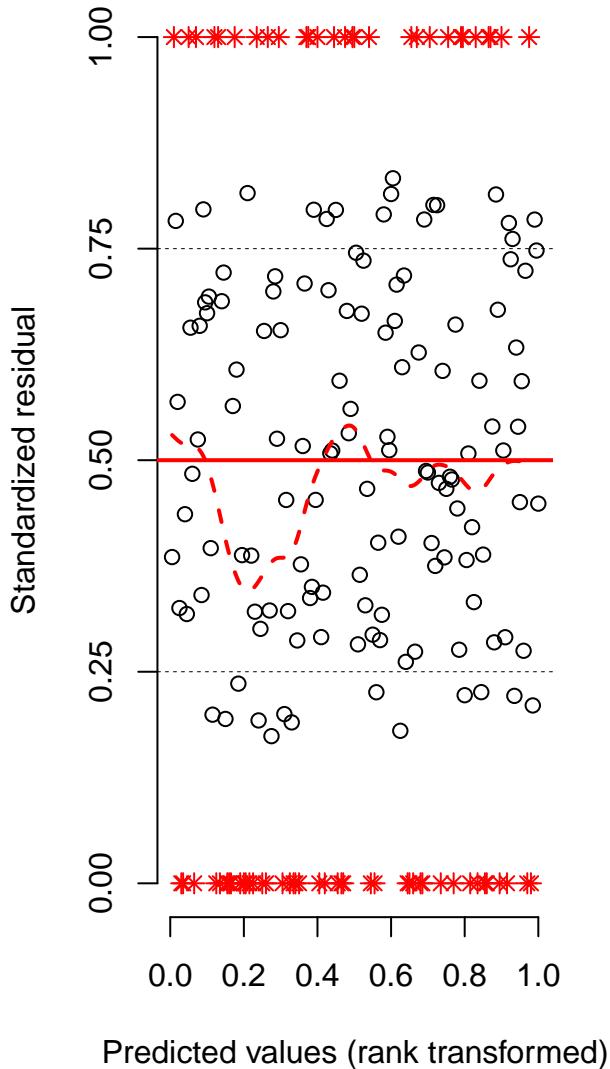
Simulated values, red line = fitted model. p-value (two.sided) = 0.42

DHARMA scaled residual plots

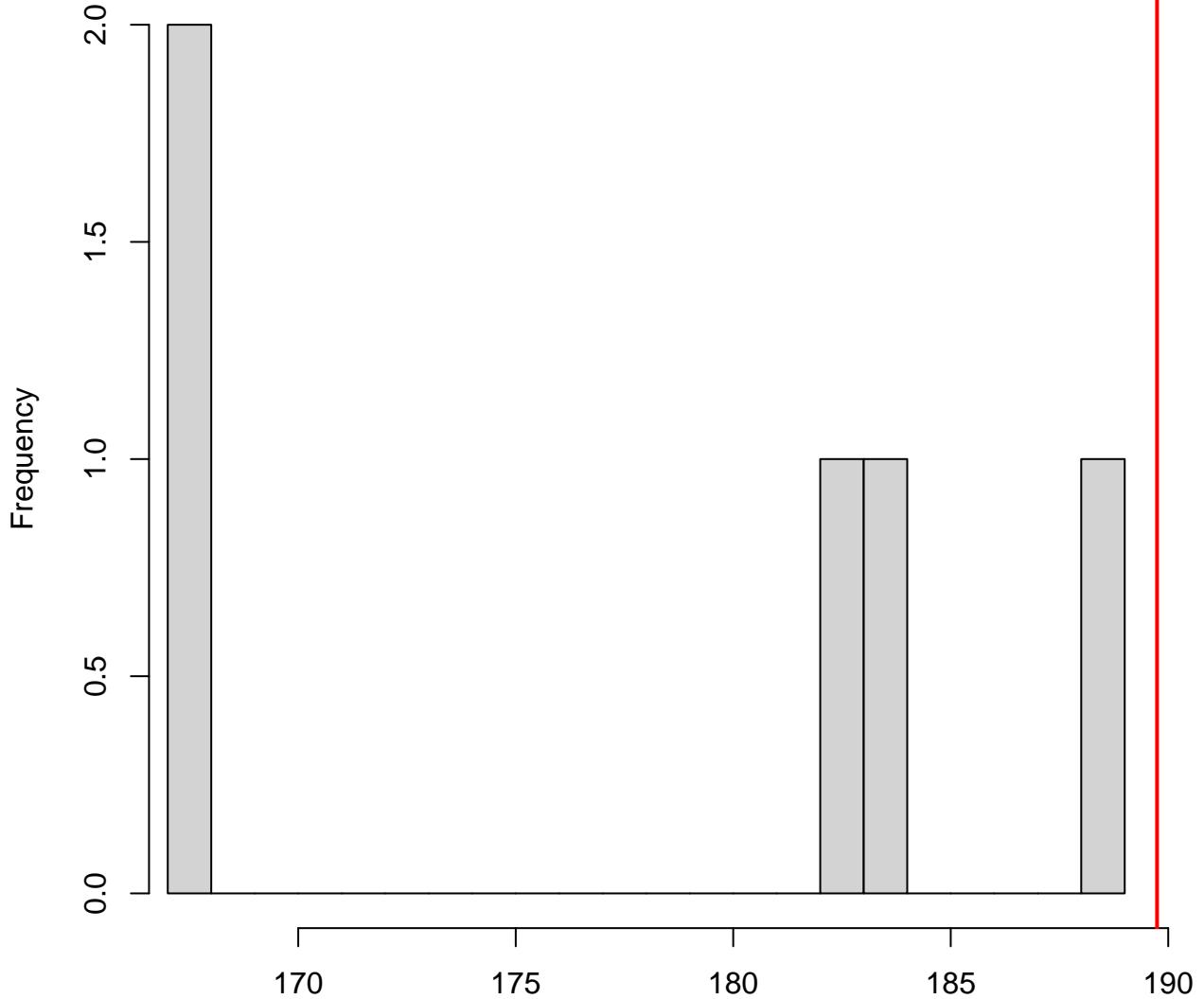
QQ plot residuals



Residual vs. predicted lines should match

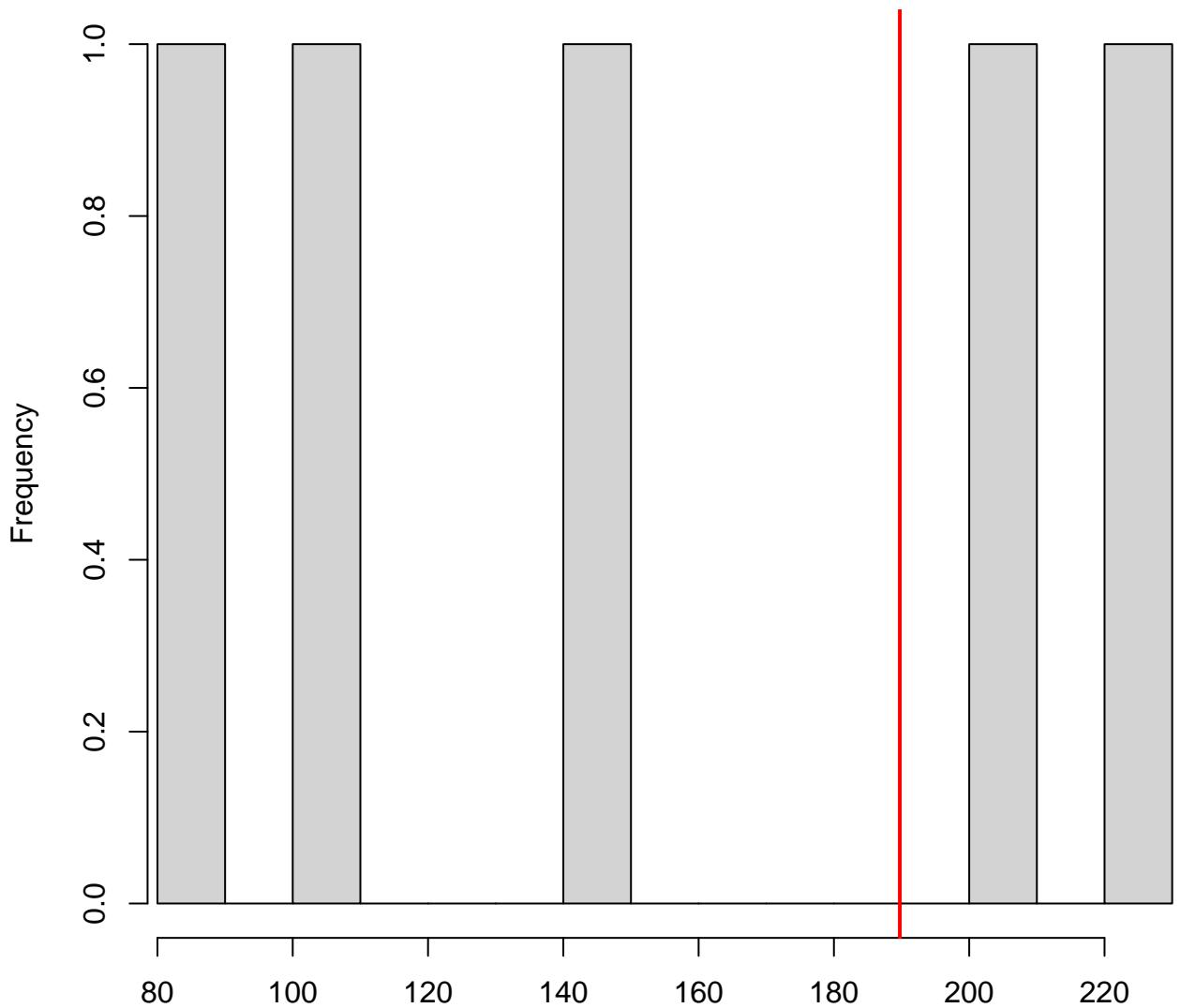


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



Simulated values, red line = fitted model. p-value (two.sided) = 0

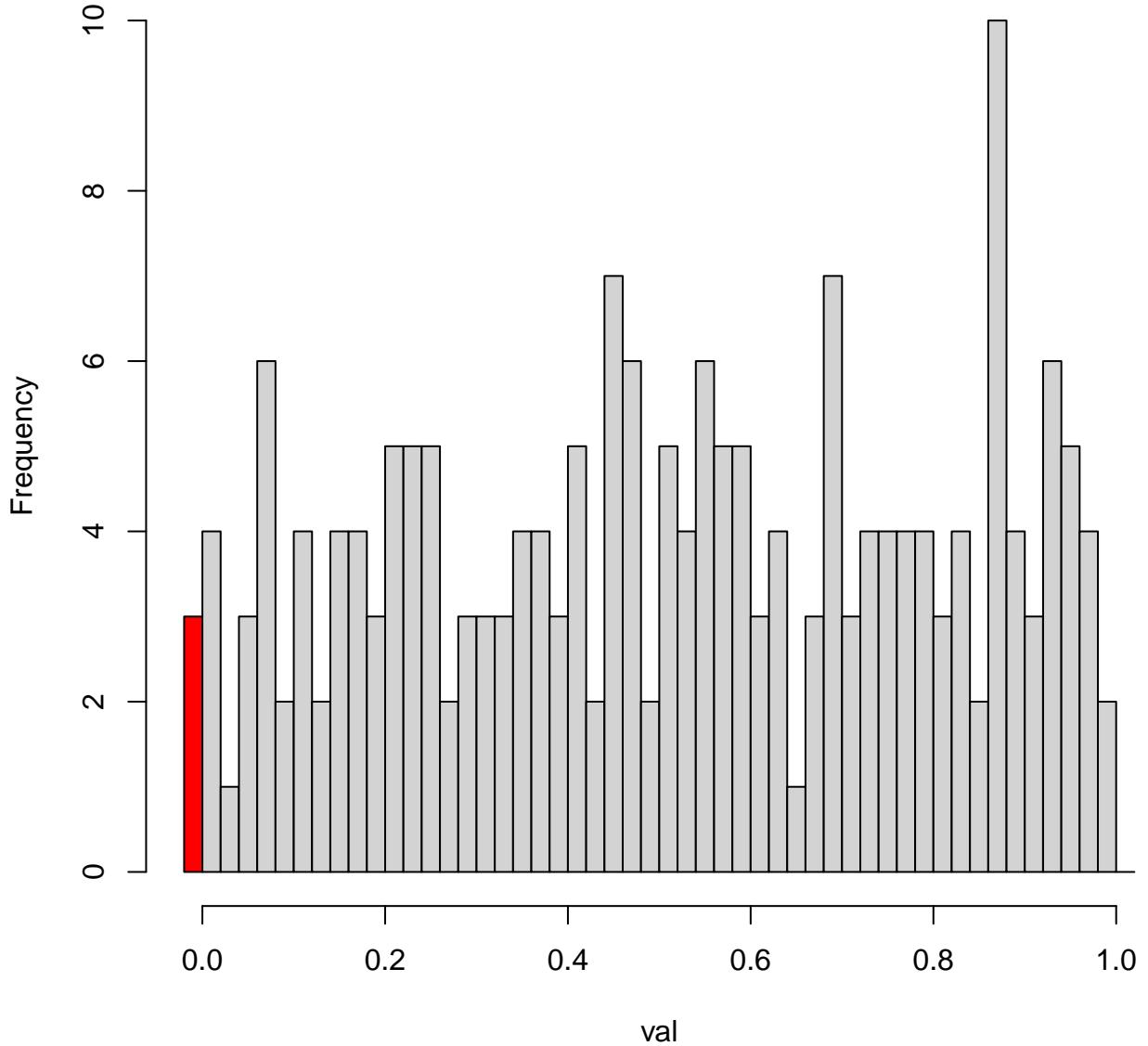
DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



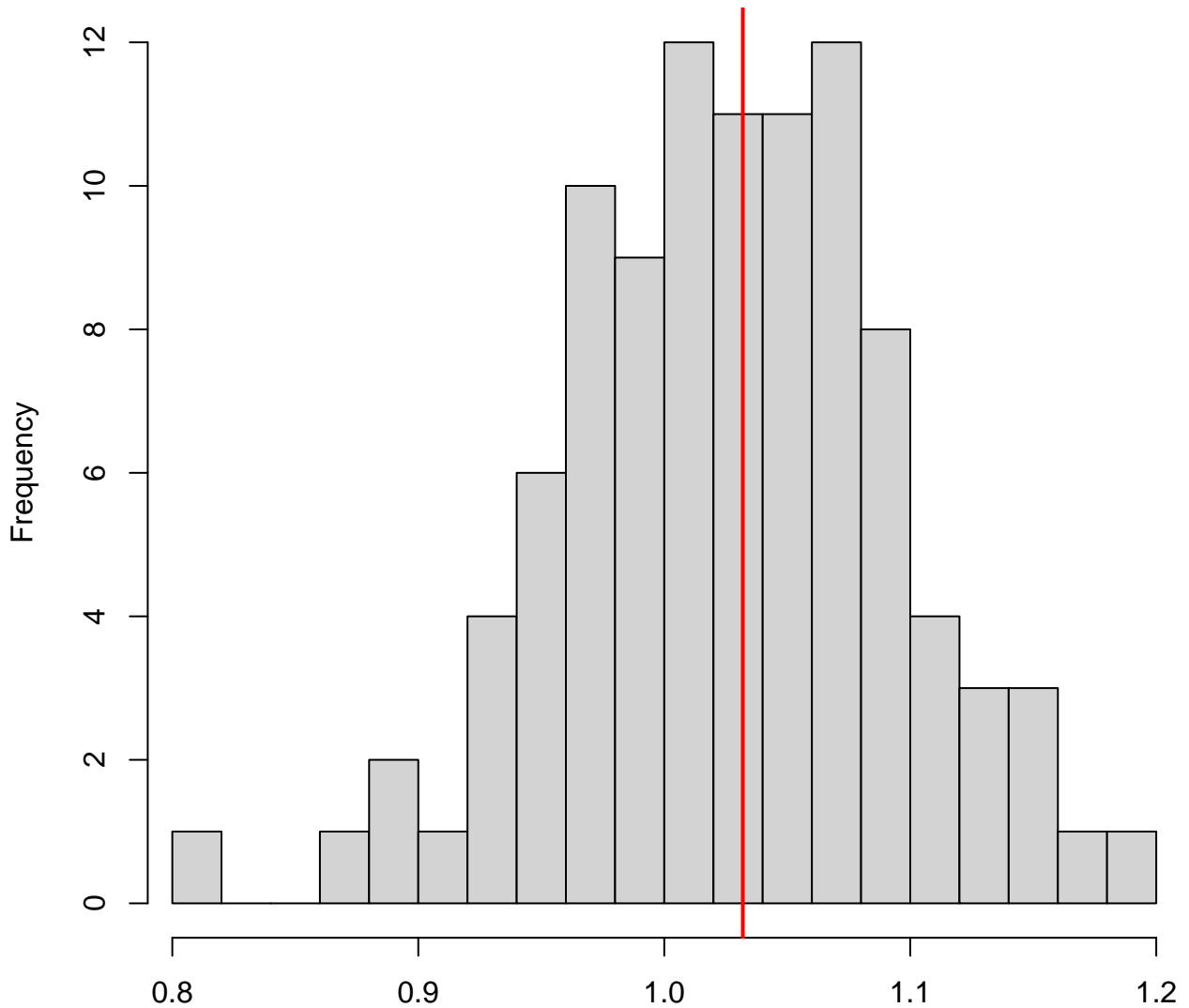
Simulated values, red line = fitted model. p-value (two.sided) = 0.8

Hist of DHARMA residuals

Outliers are marked red

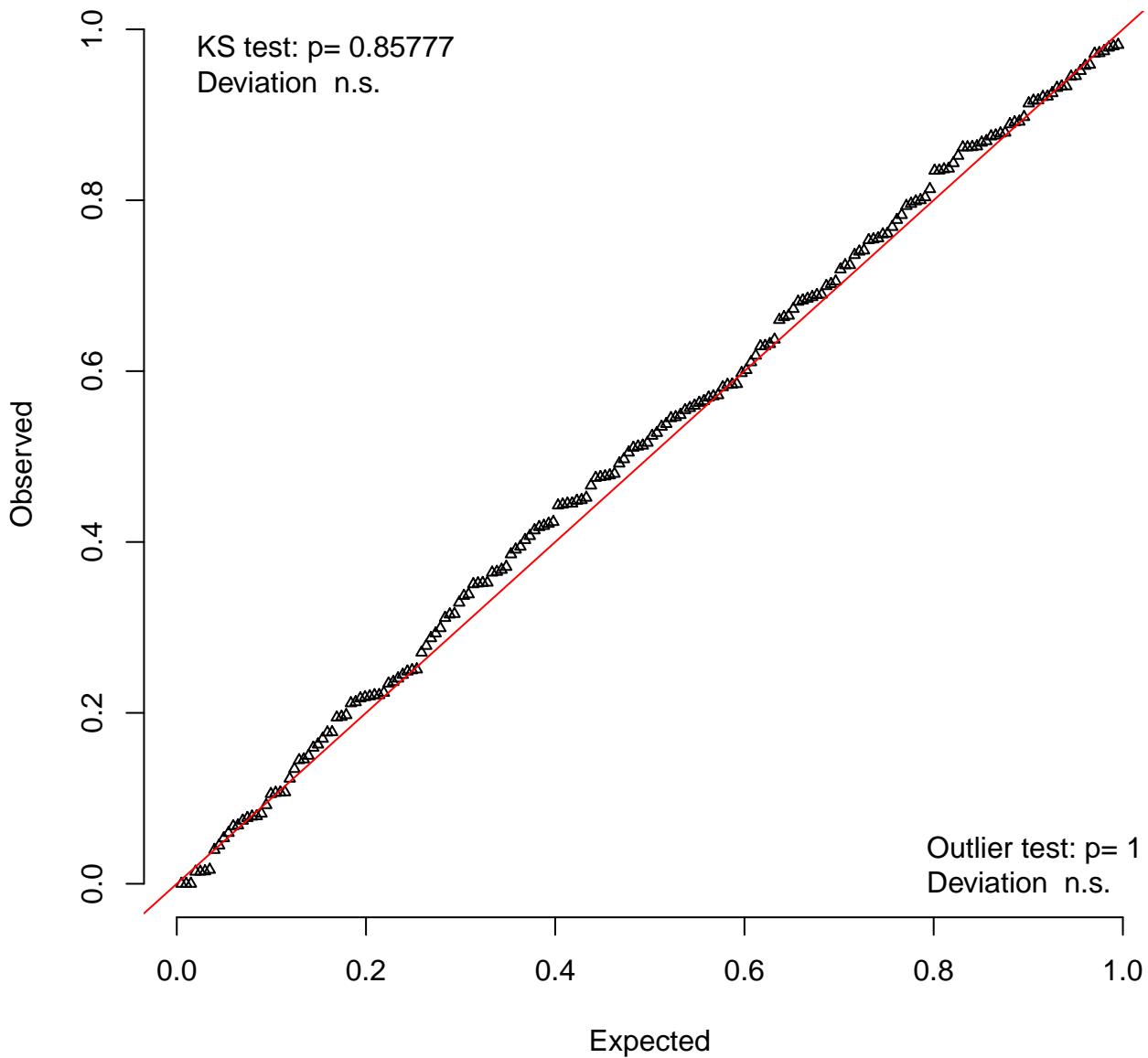


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

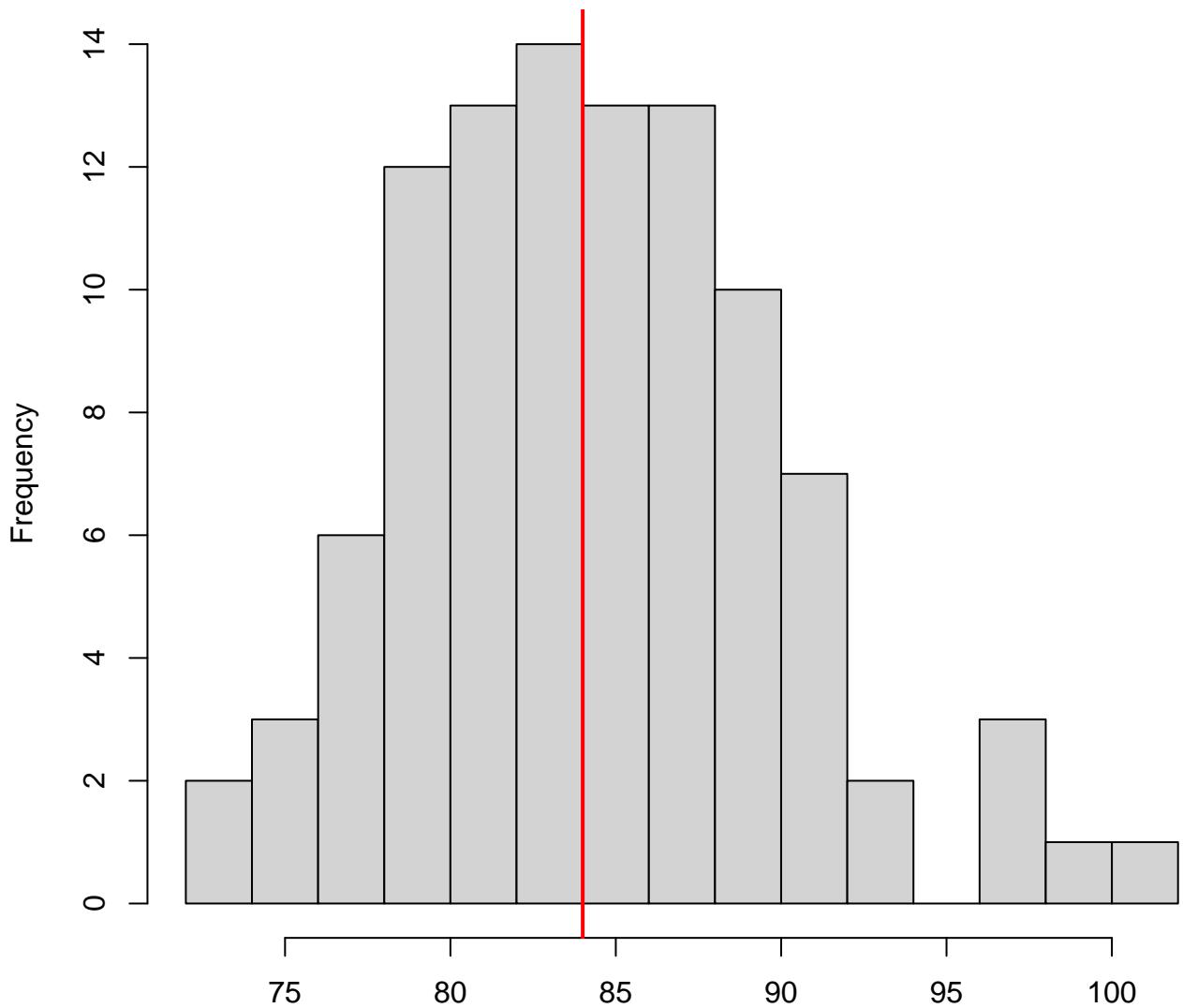


Simulated values, red line = fitted model. p-value (two.sided) = 1

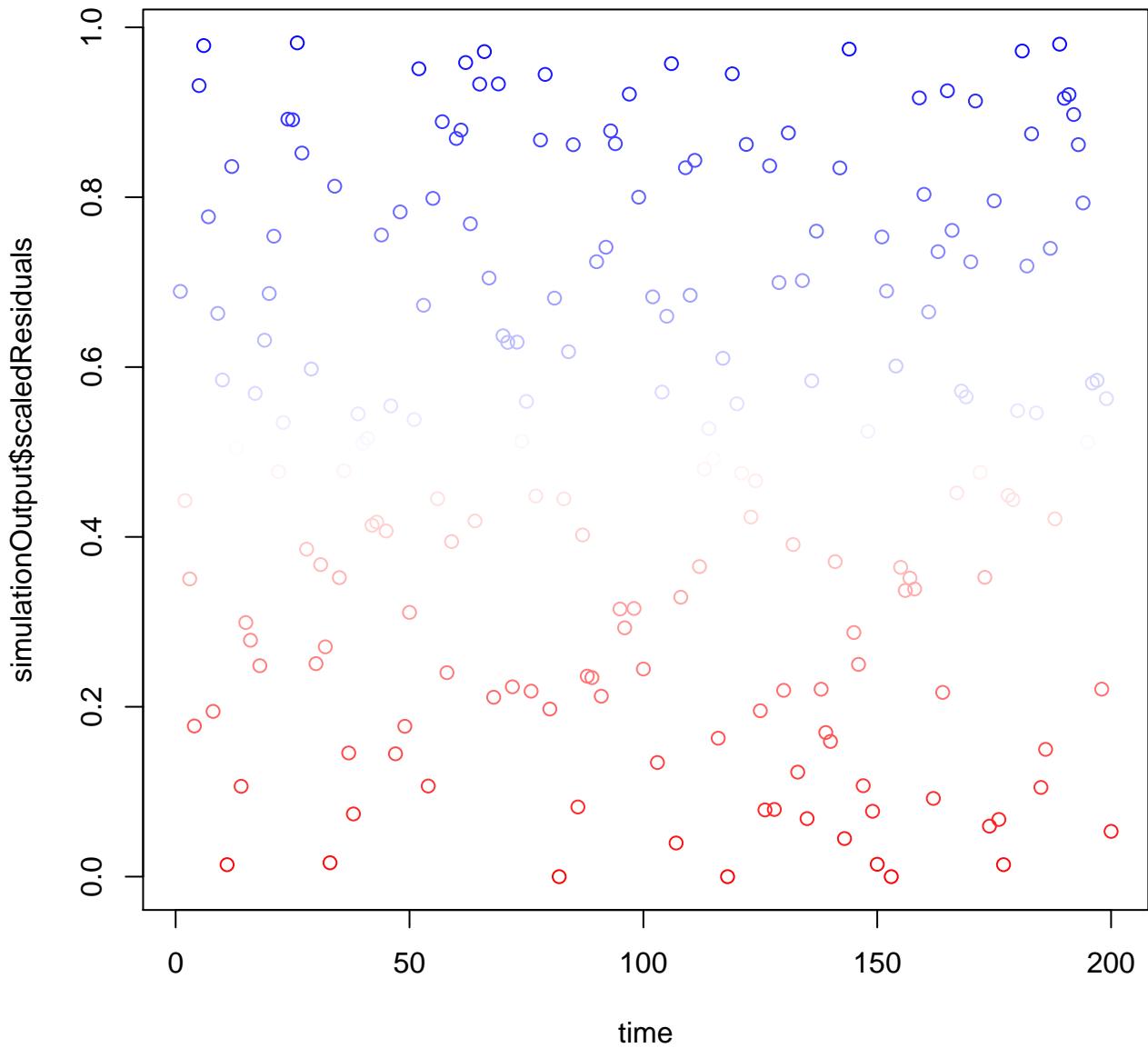
QQ plot residuals

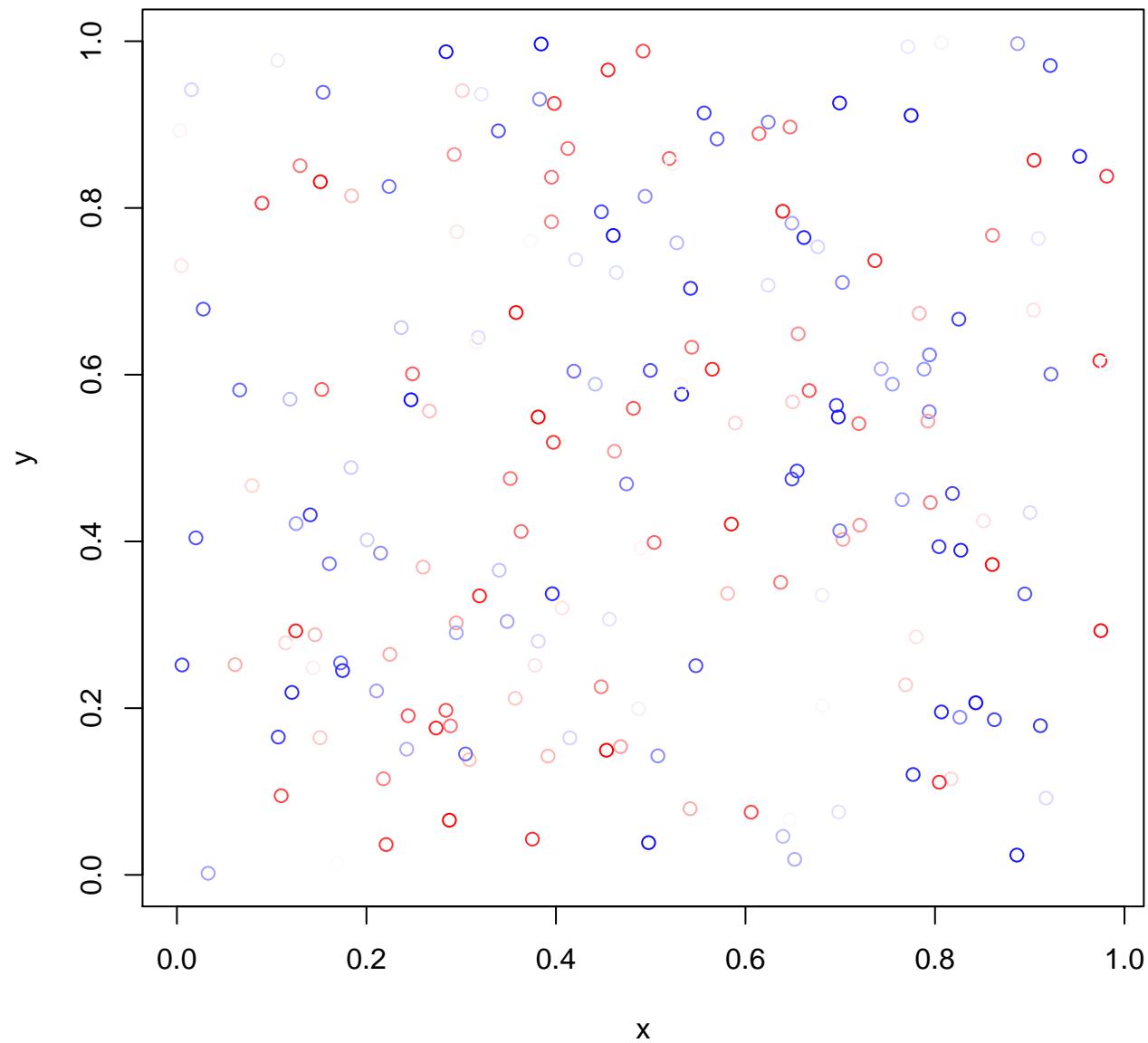


DHARMA zero-inflation test via comparison to expected zeros with simulation under H0 = fitted model

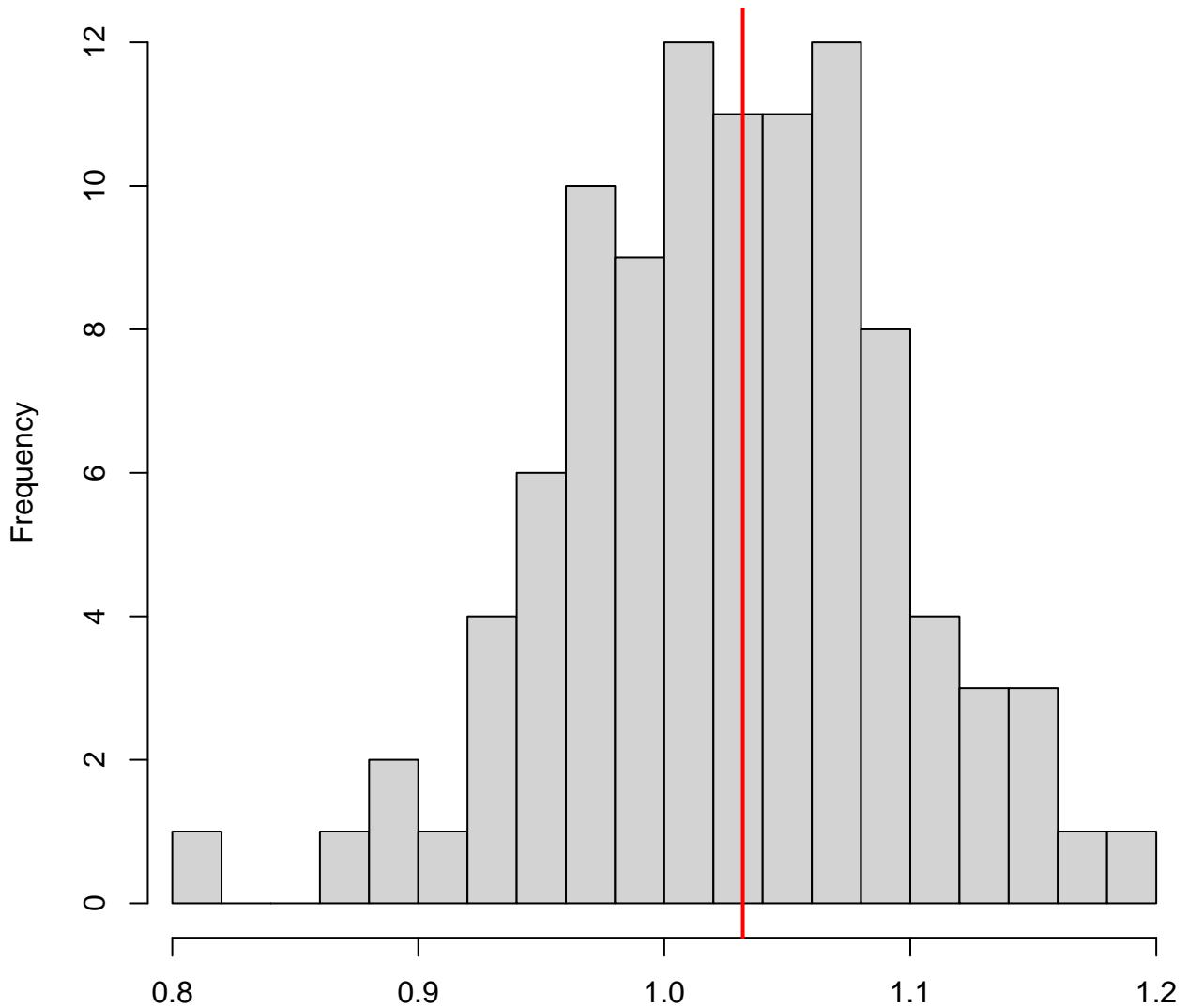


Simulated values, red line = fitted model. p-value (two.sided) = 1



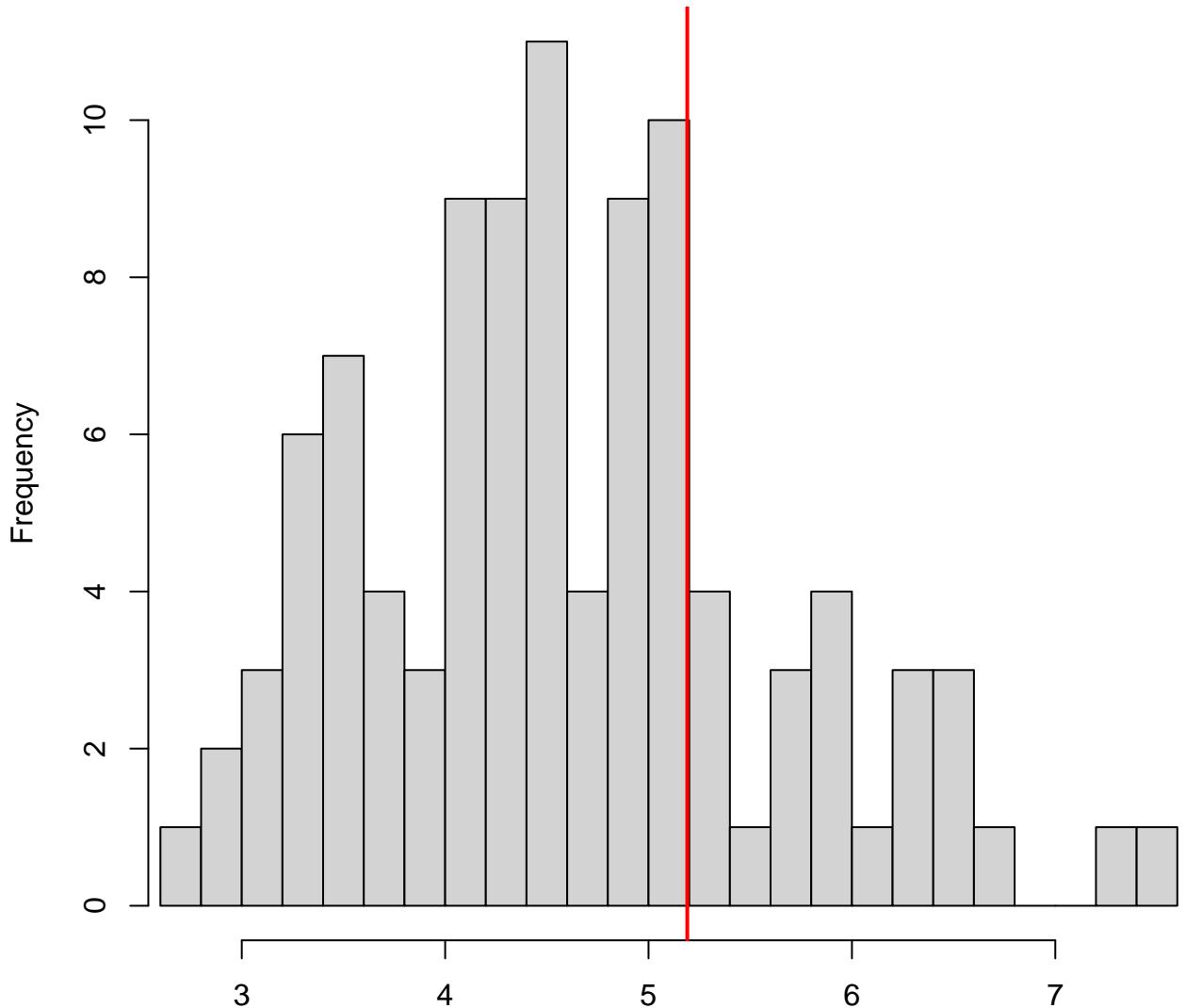


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 1

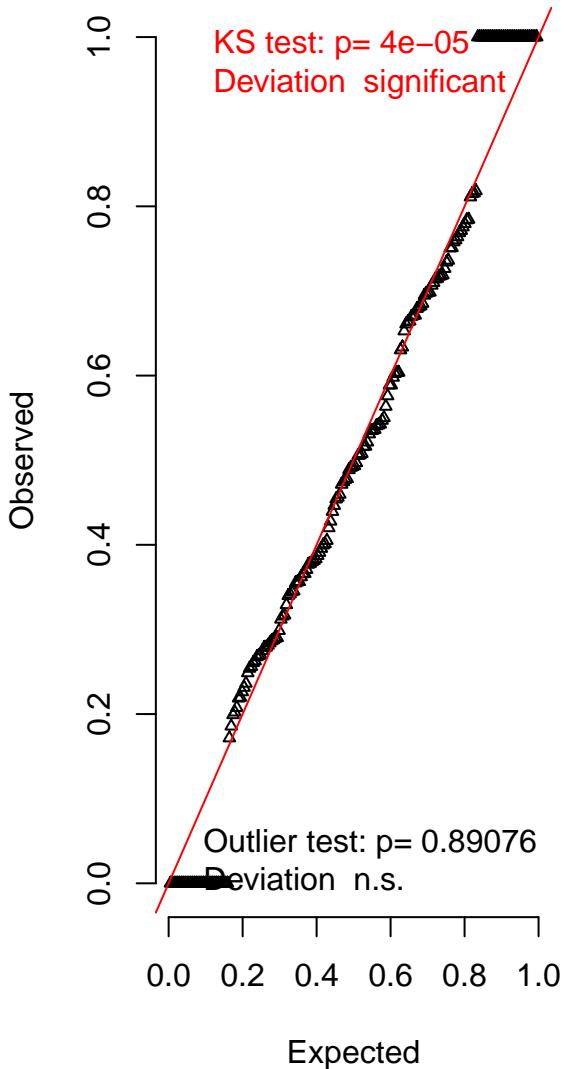
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



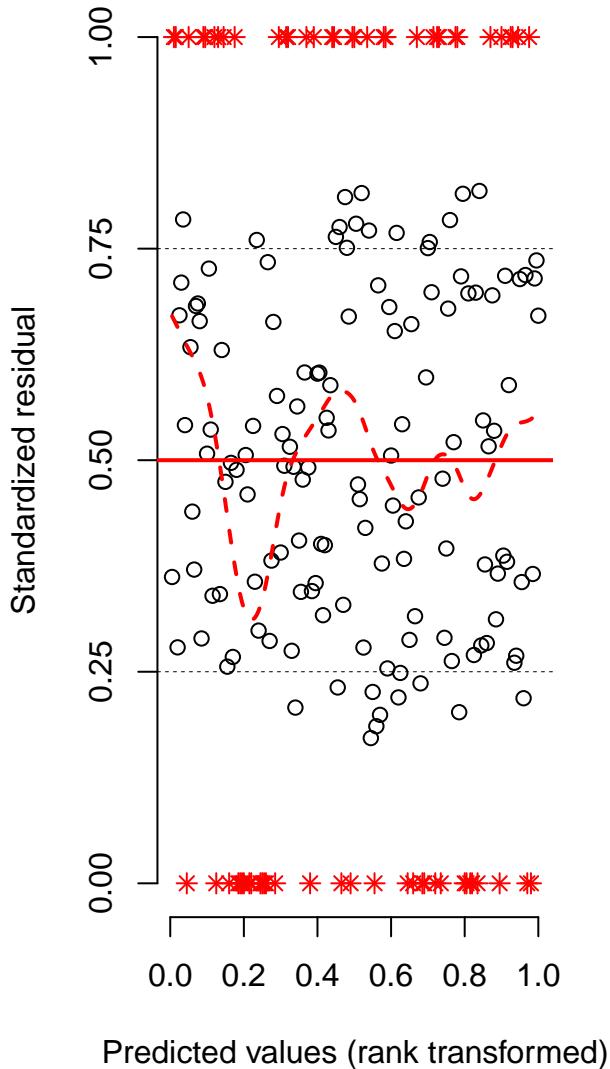
Simulated values, red line = fitted model. p-value (two.sided) = 0.44

DHARMA scaled residual plots

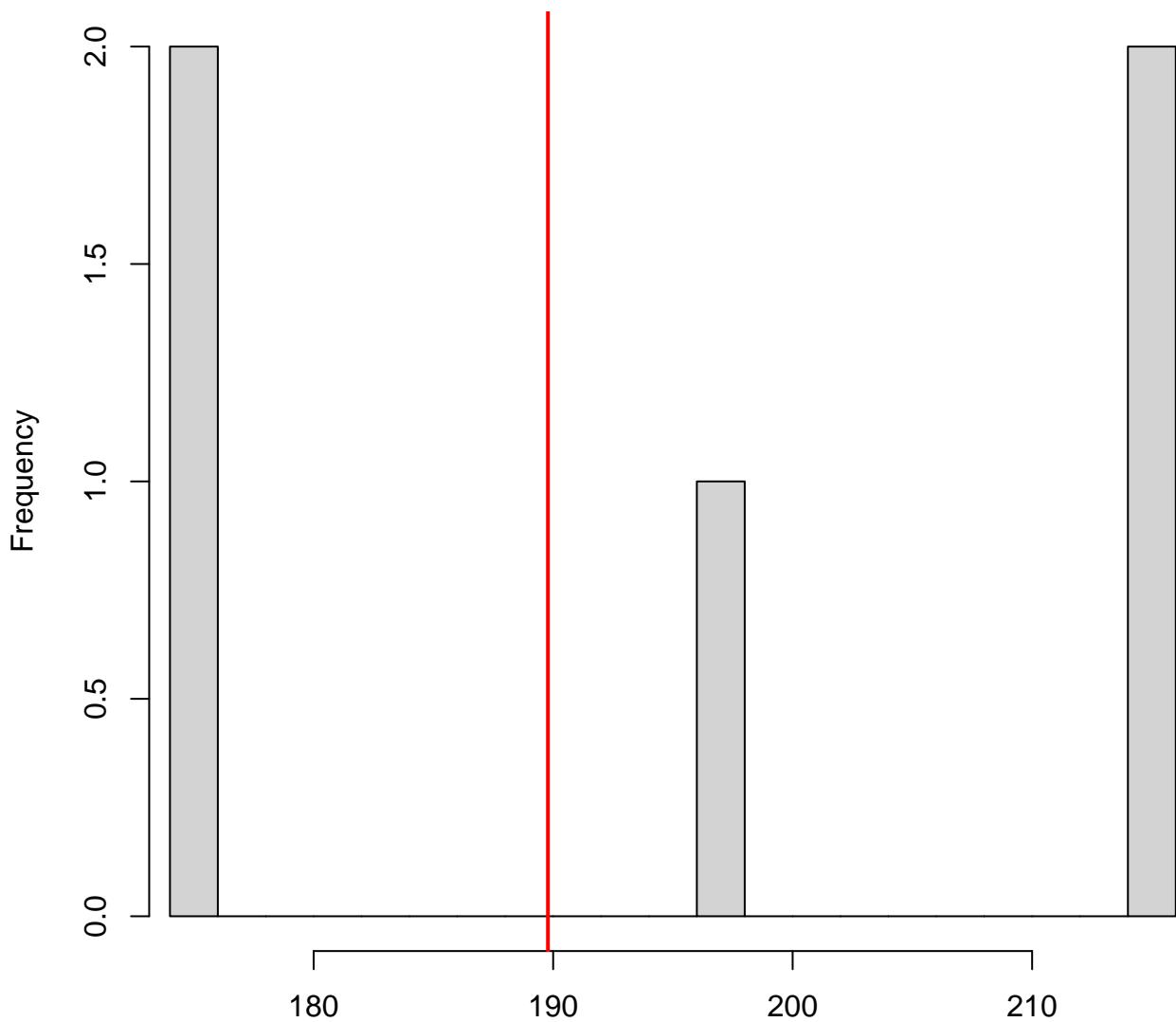
QQ plot residuals



Residual vs. predicted lines should match

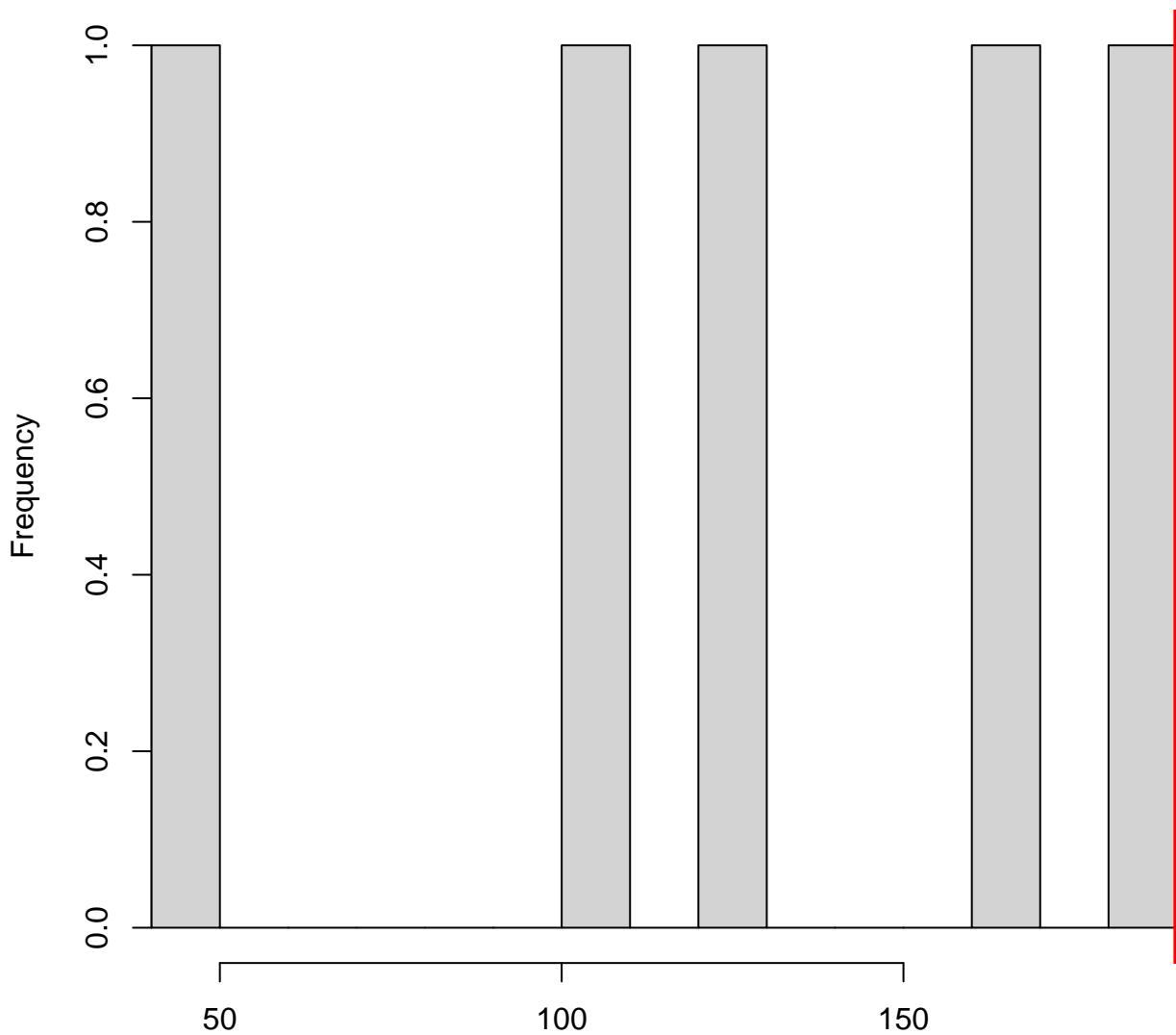


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



Simulated values, red line = fitted model. p-value (two.sided) = 0.8

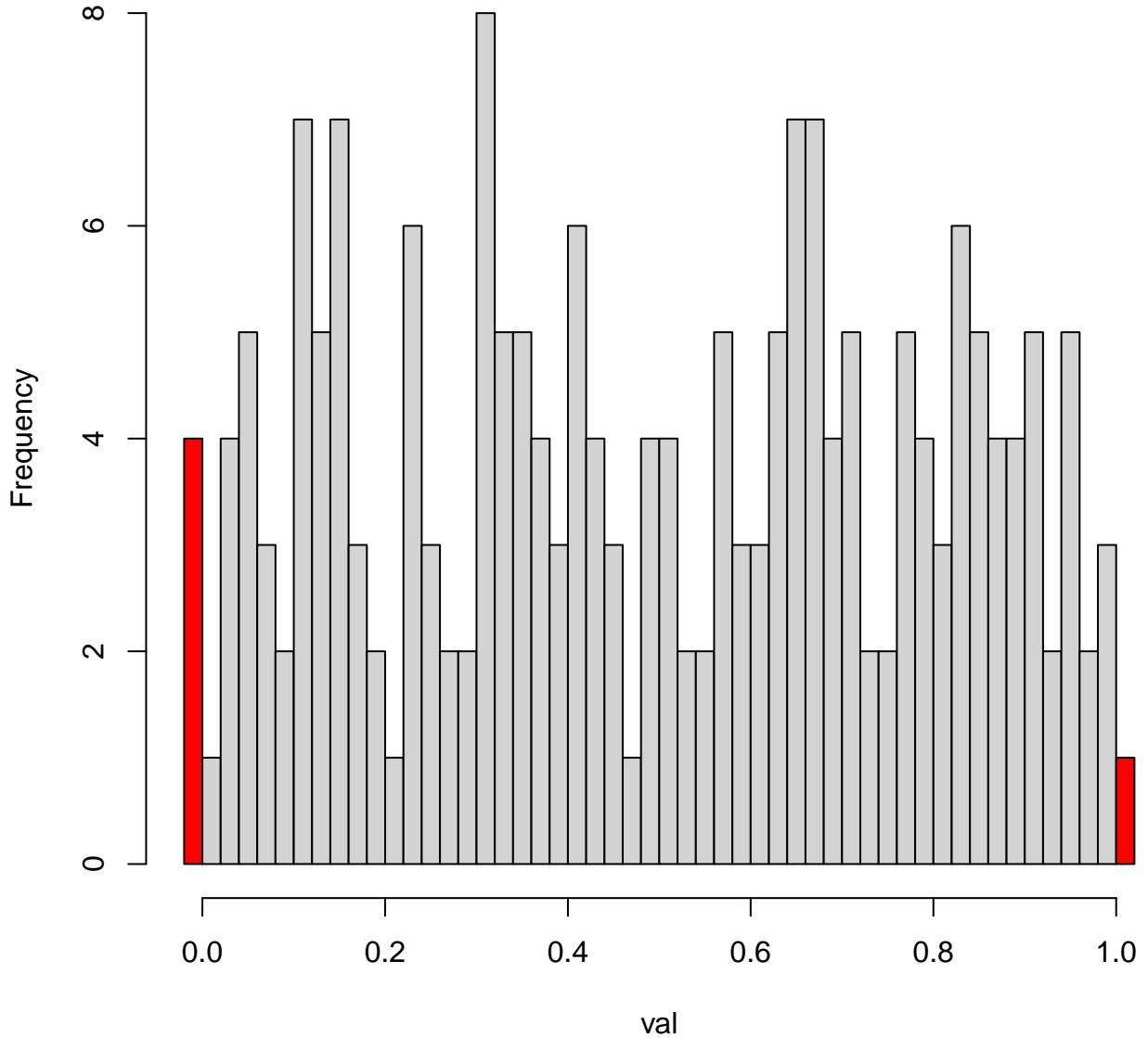
DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



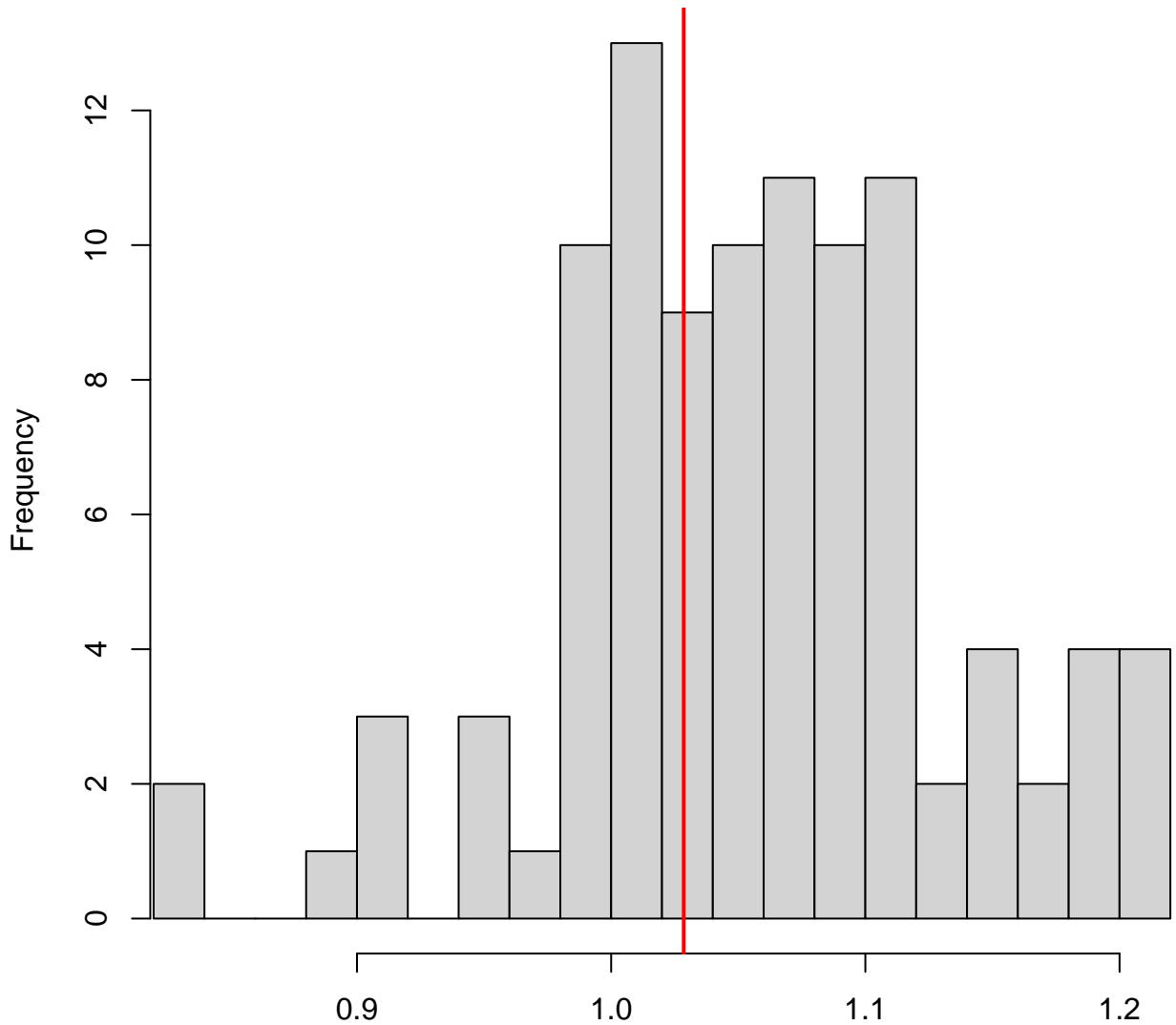
Simulated values, red line = fitted model. p-value (two.sided) = 0

Hist of DHARMA residuals

Outliers are marked red

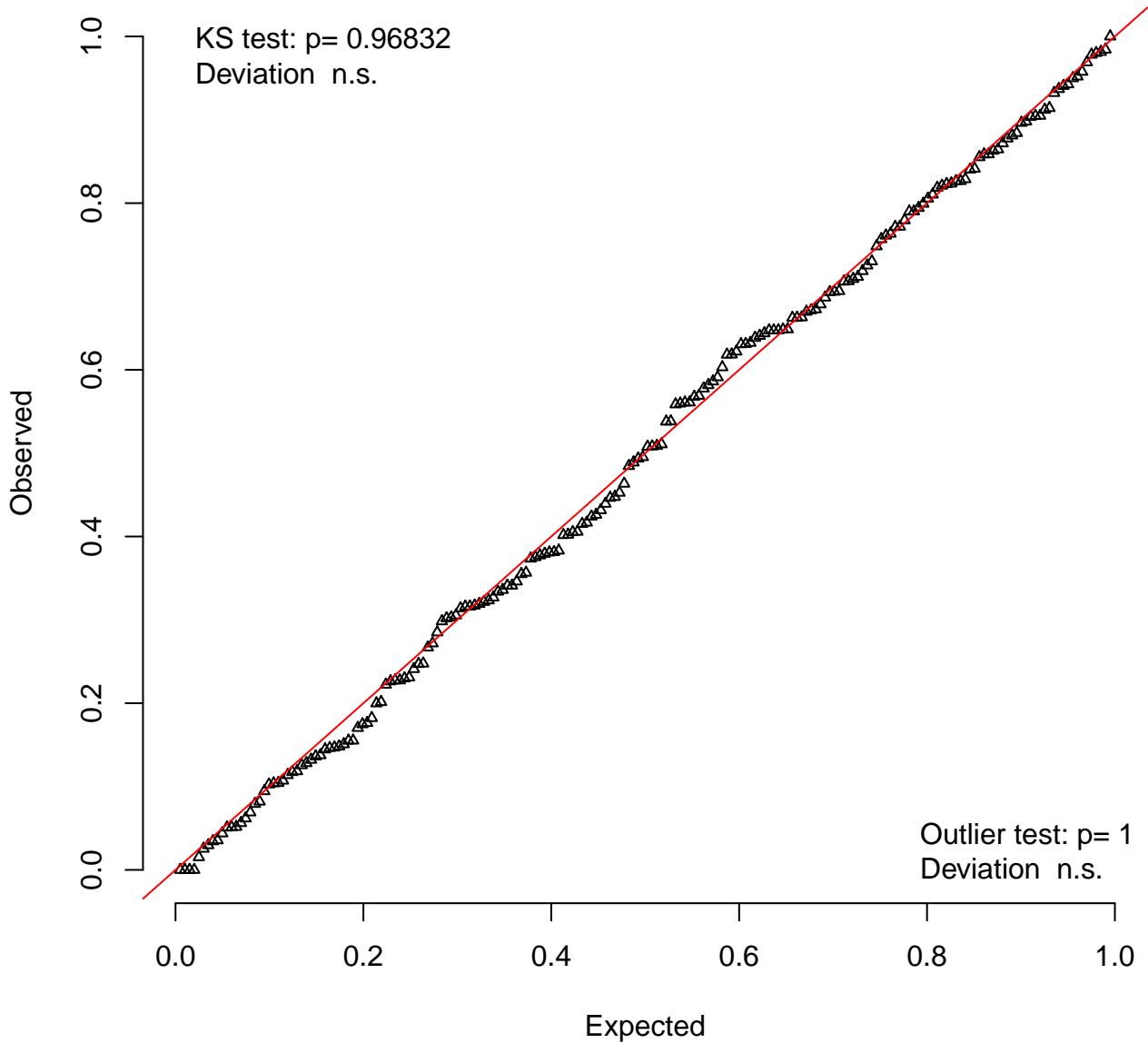


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

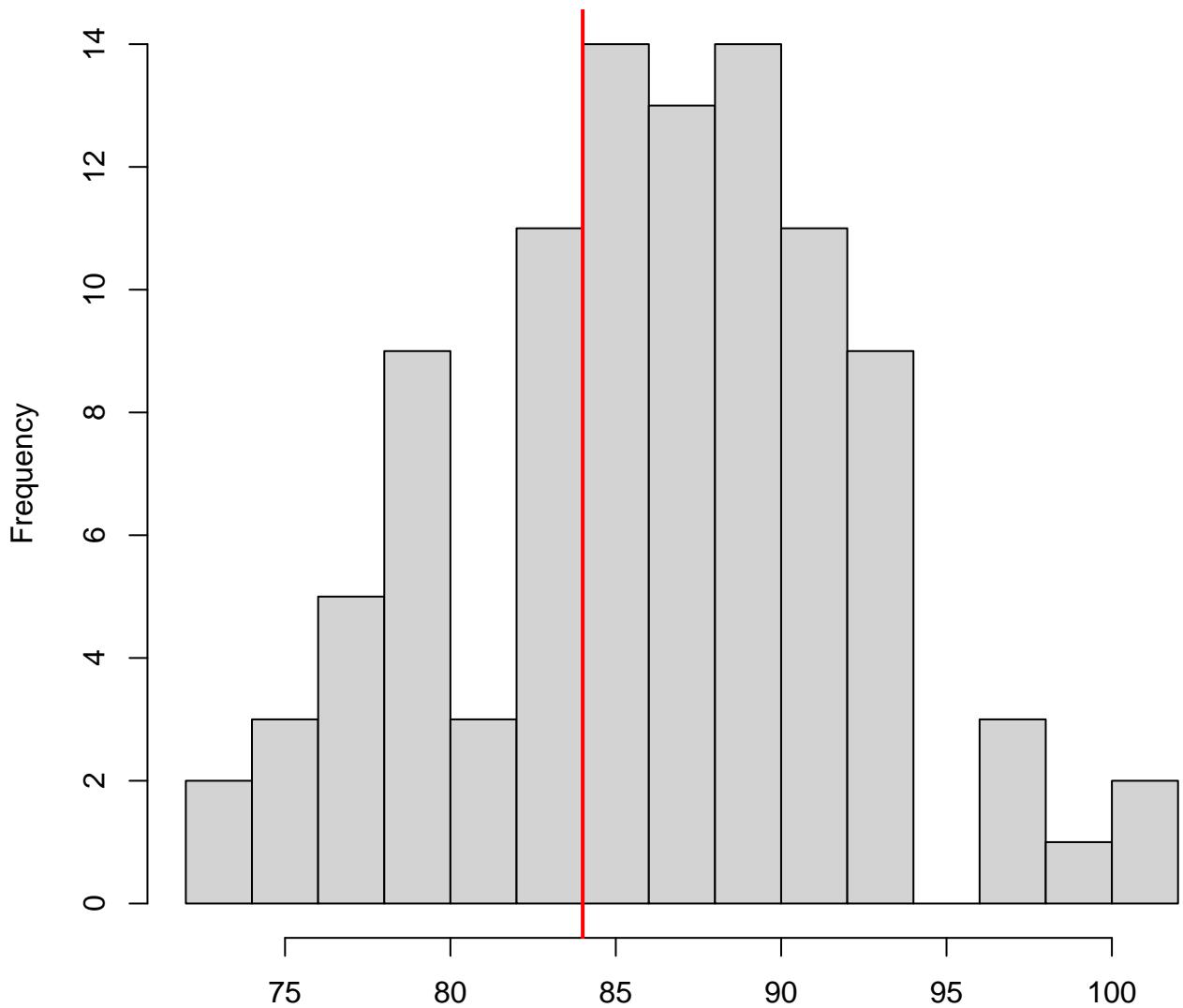


Simulated values, red line = fitted model. p-value (two.sided) = 0.74

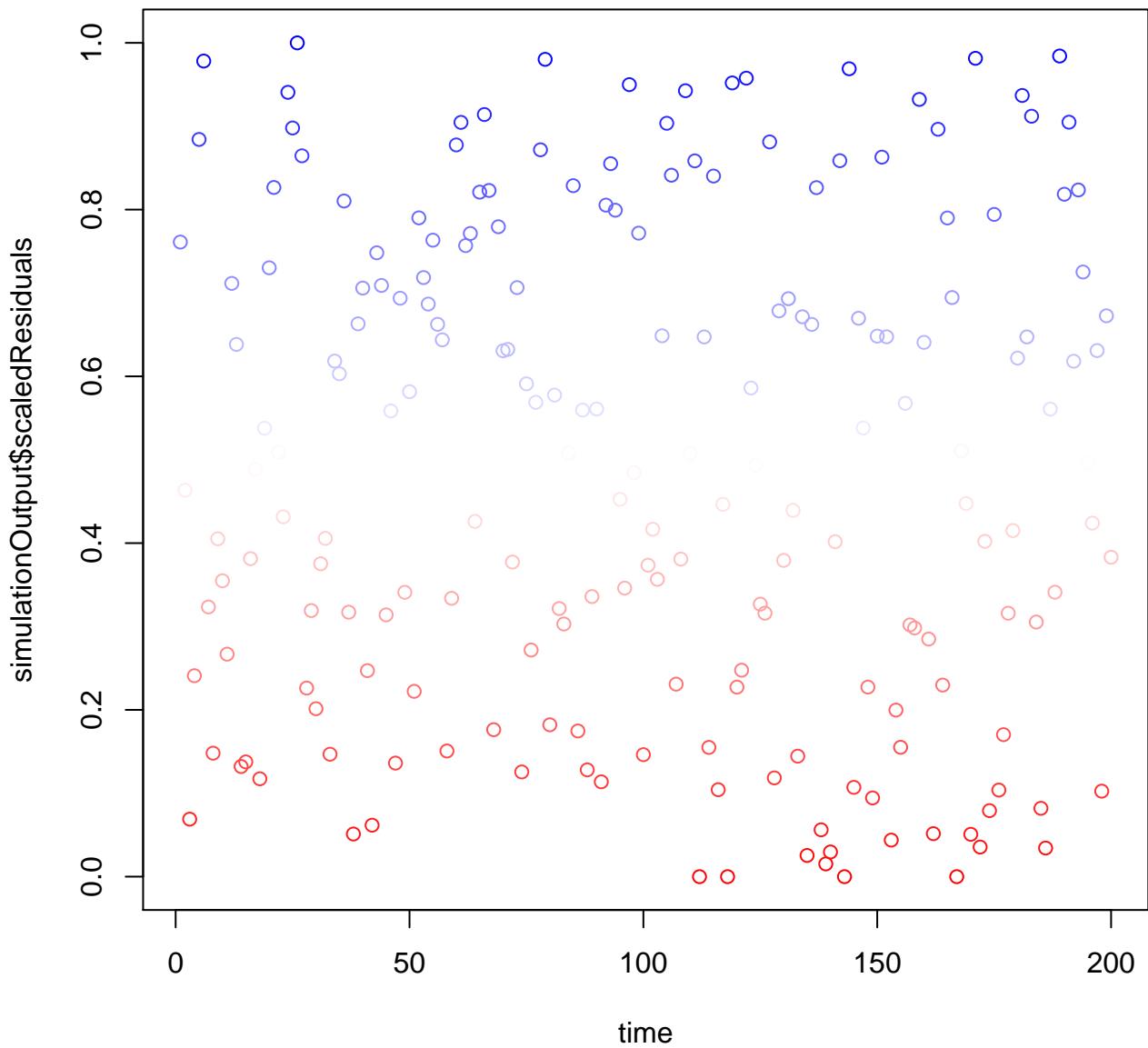
QQ plot residuals

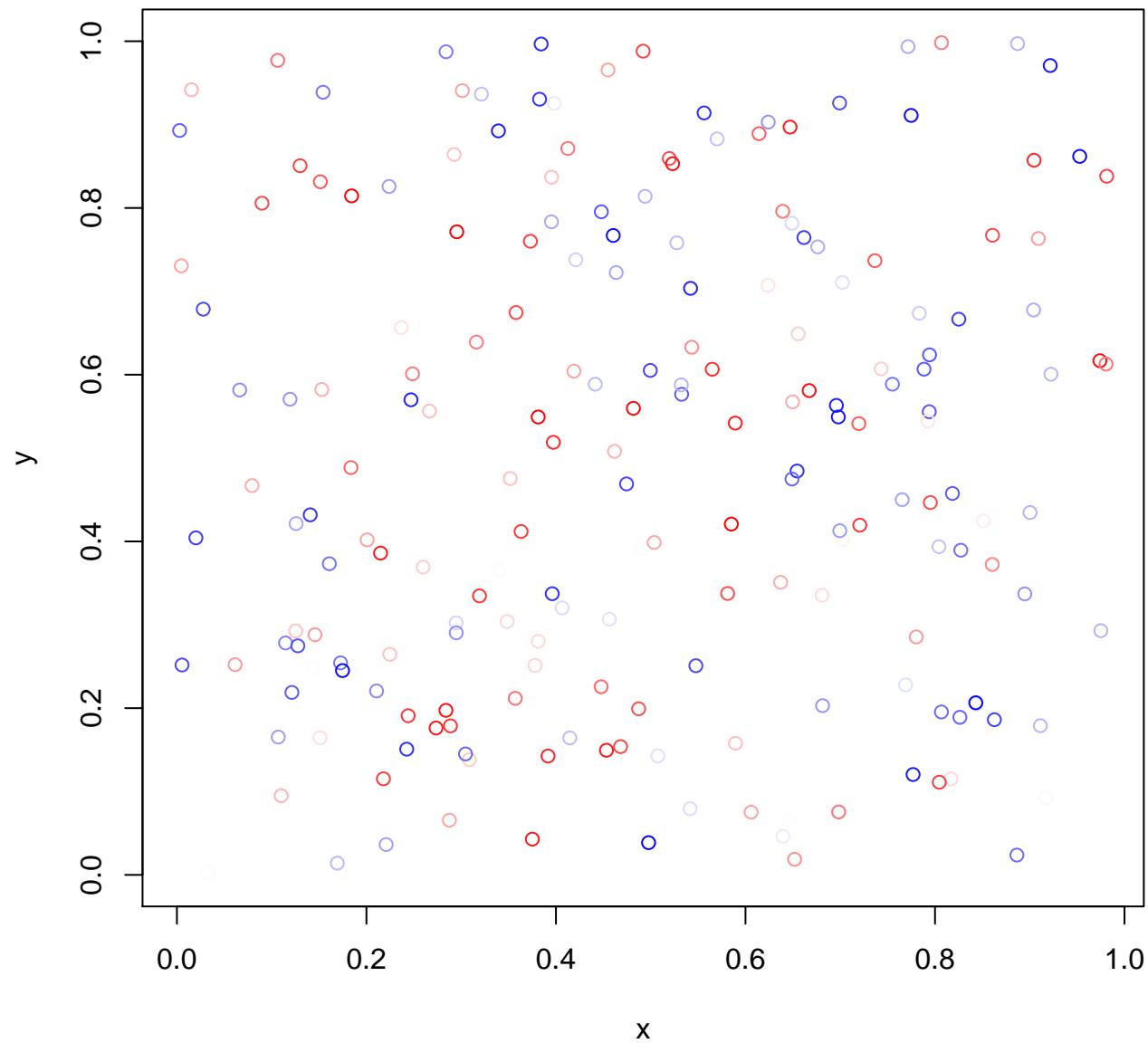


DHARMA zero-inflation test via comparison to expected zeros with simulation under H0 = fitted model

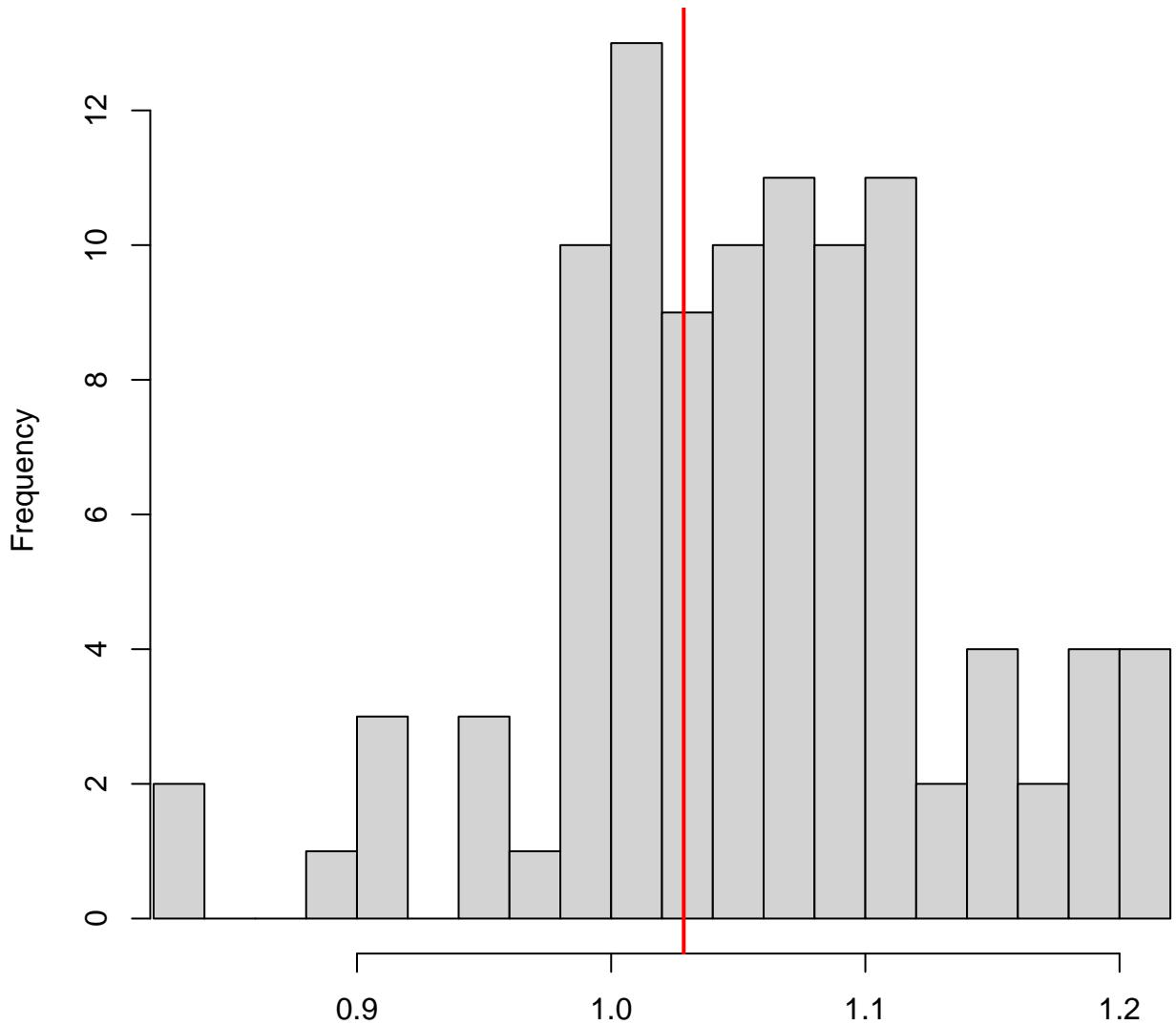


Simulated values, red line = fitted model. p-value (two.sided) = 0.66



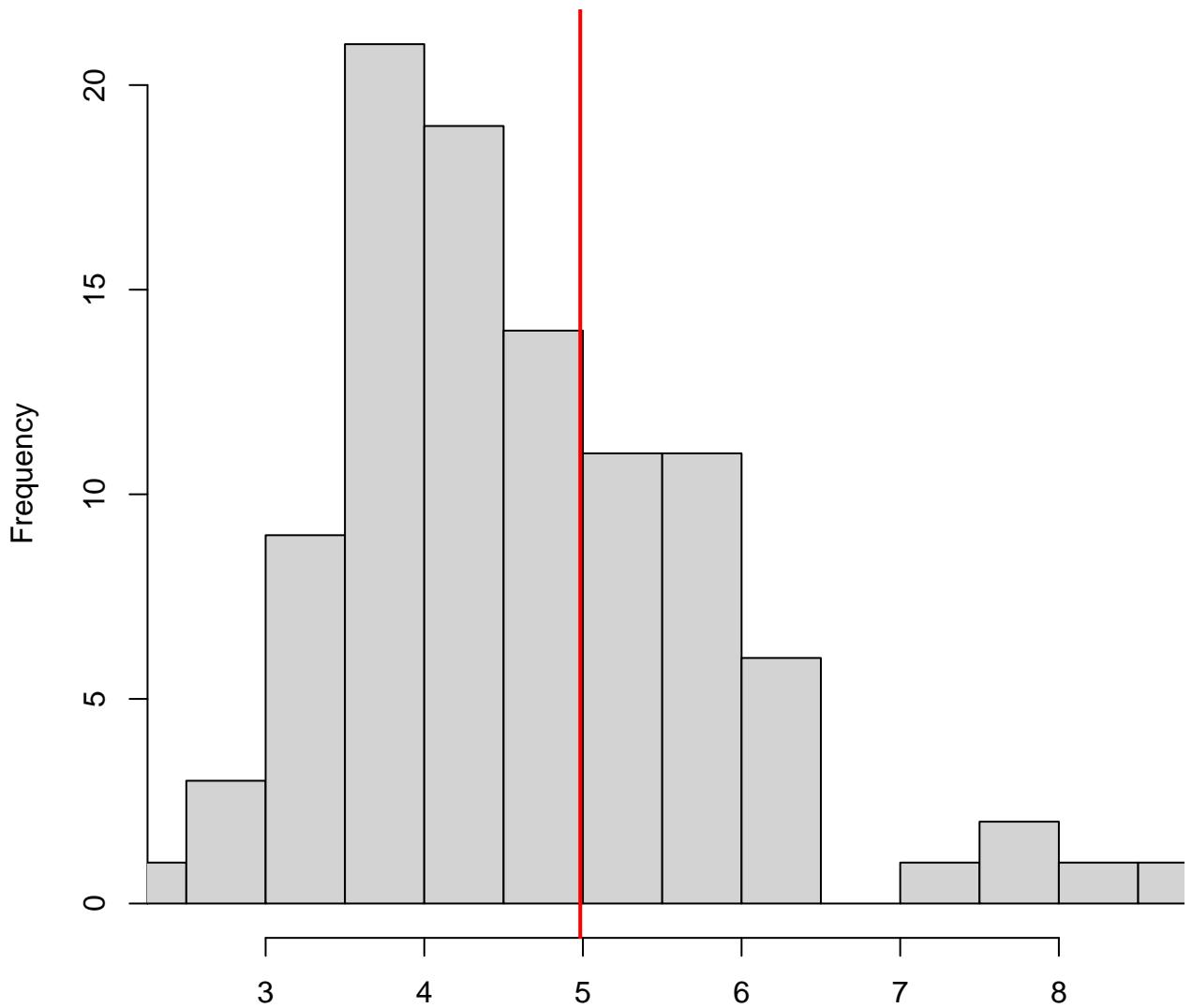


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 0.74

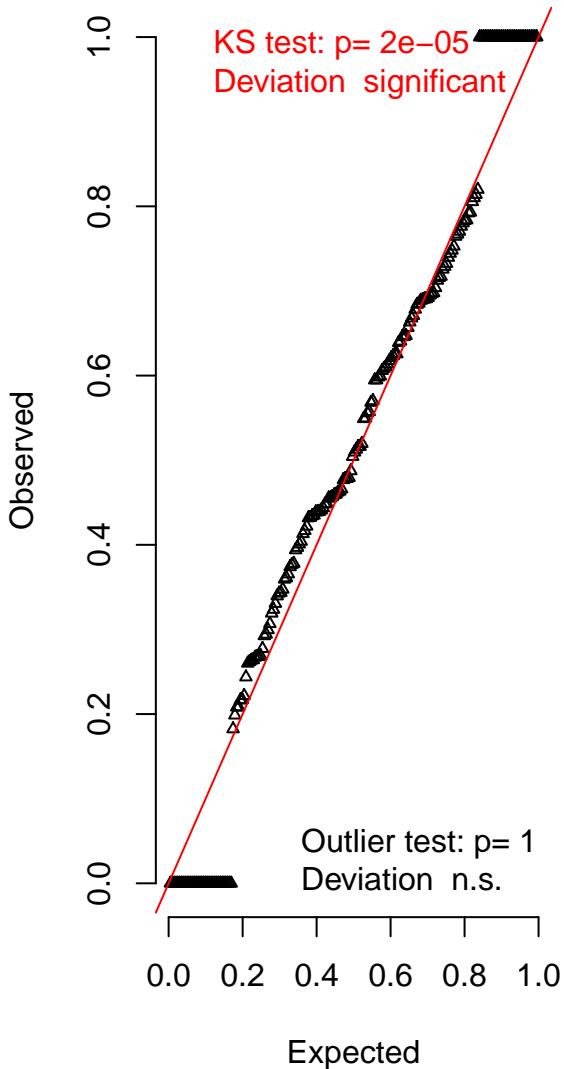
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



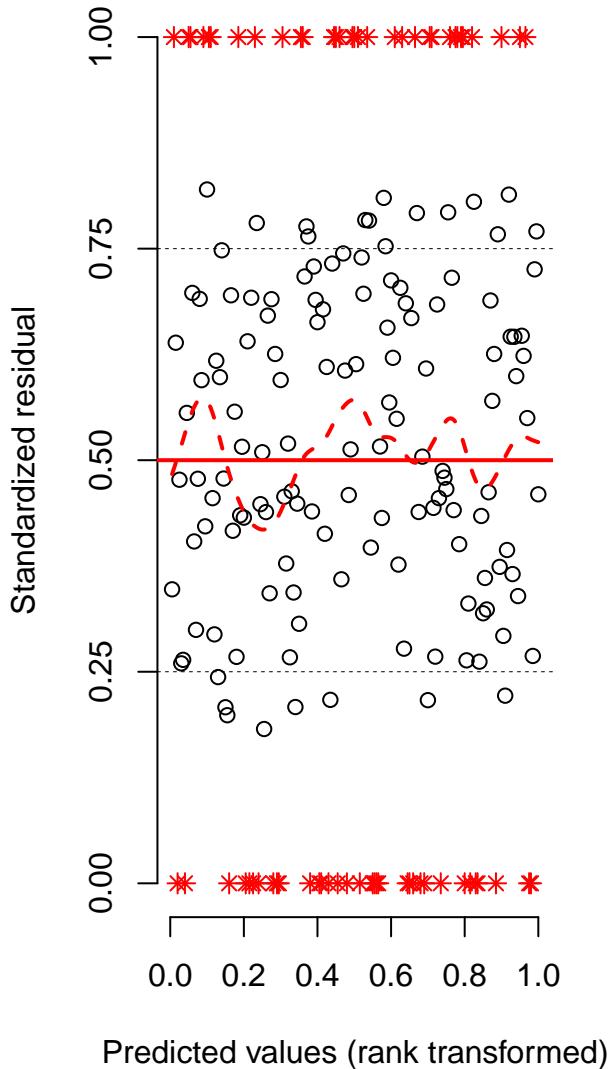
Simulated values, red line = fitted model. p-value (two.sided) = 0.66

DHARMA scaled residual plots

QQ plot residuals

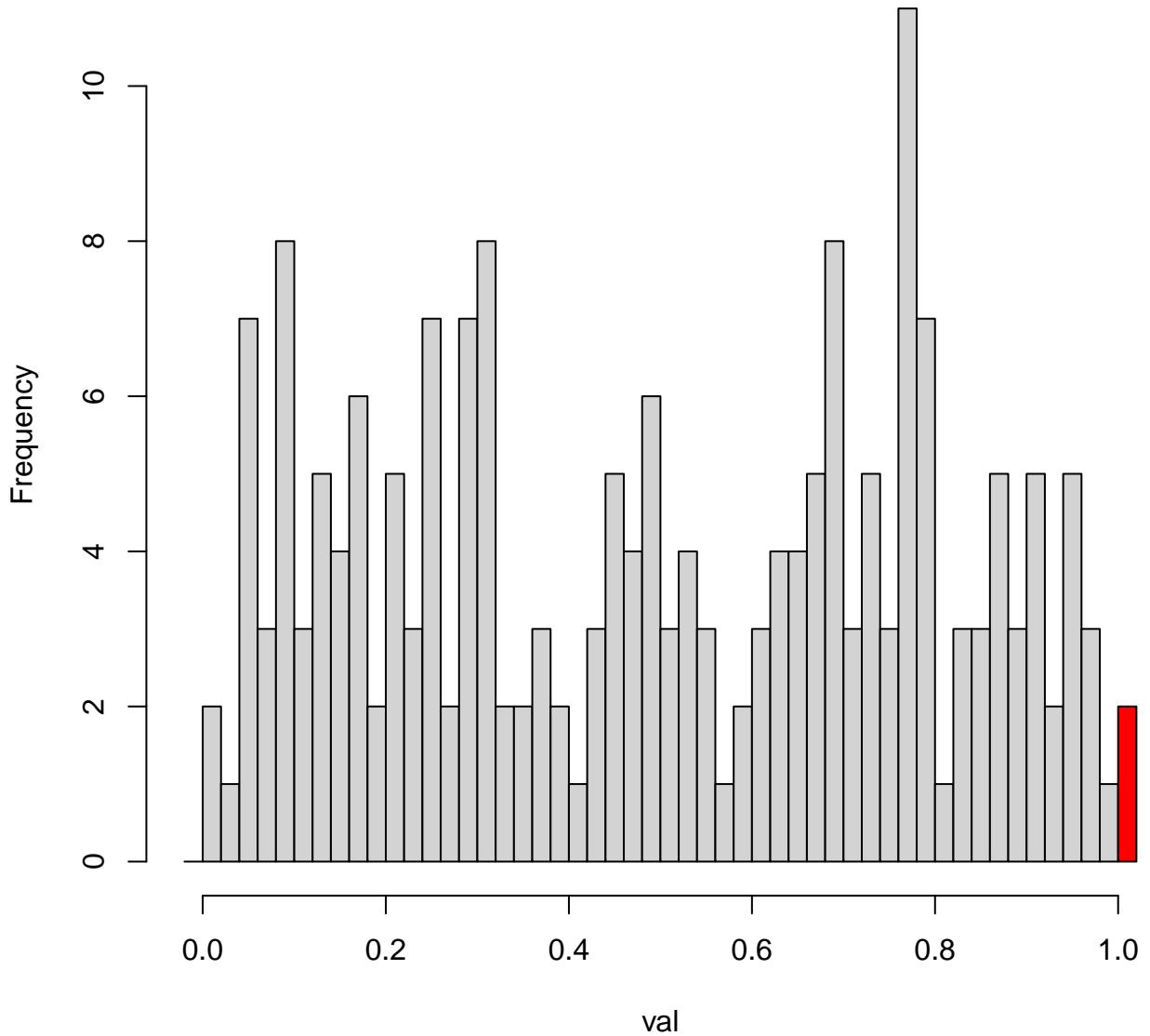


Residual vs. predicted lines should match

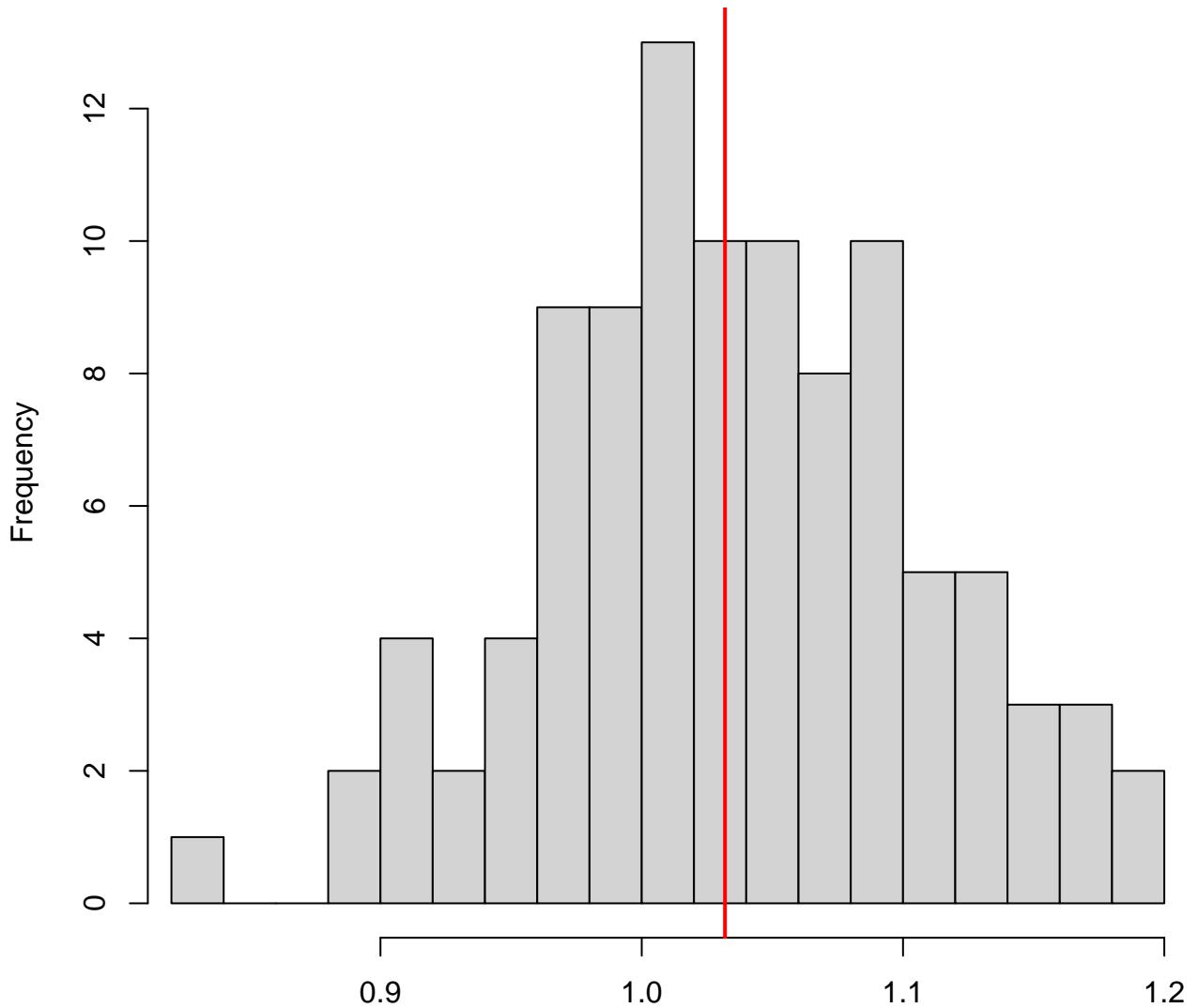


Hist of DHARMA residuals

Outliers are marked red

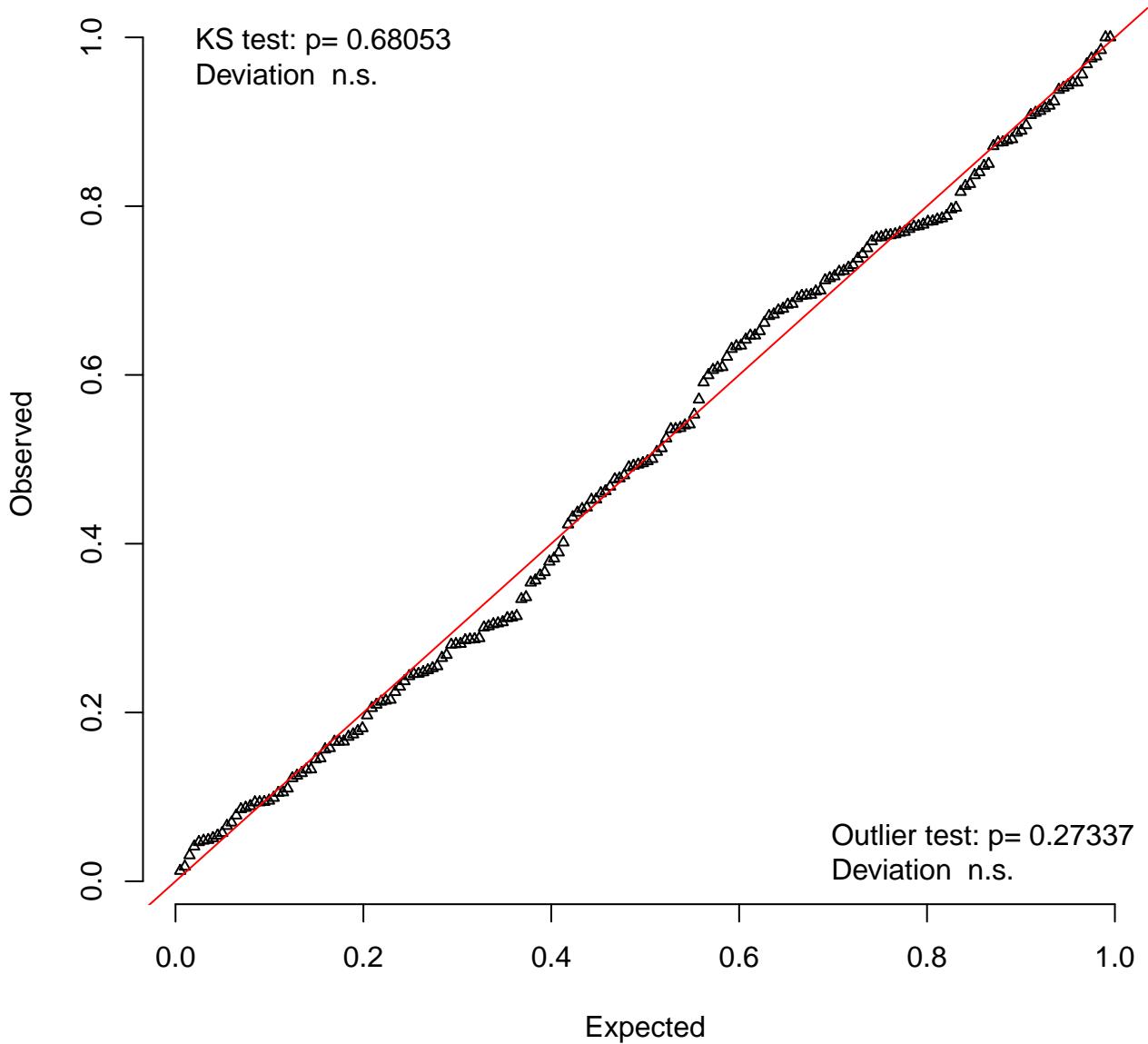


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated

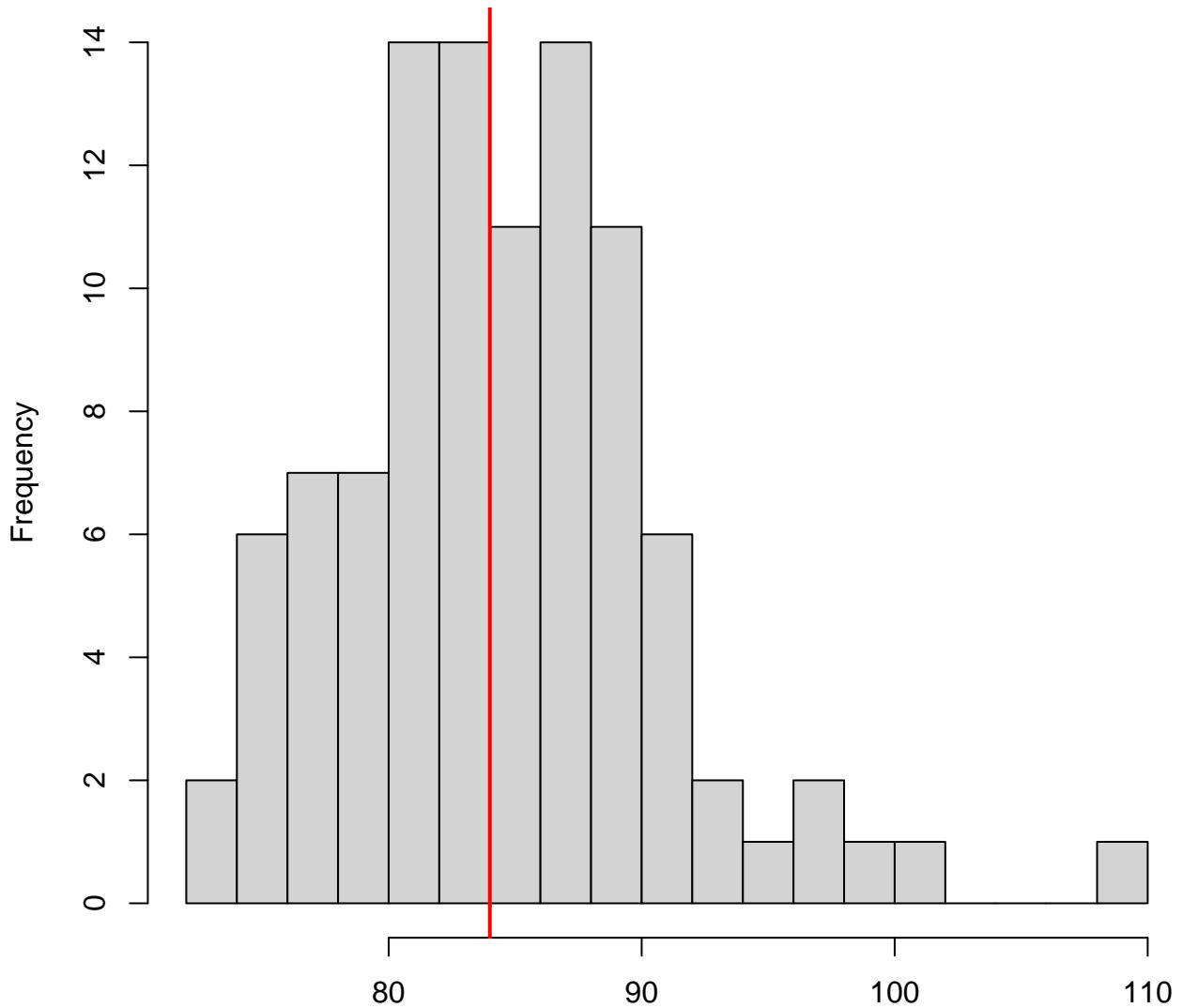


Simulated values, red line = fitted model. p-value (two.sided) = 1

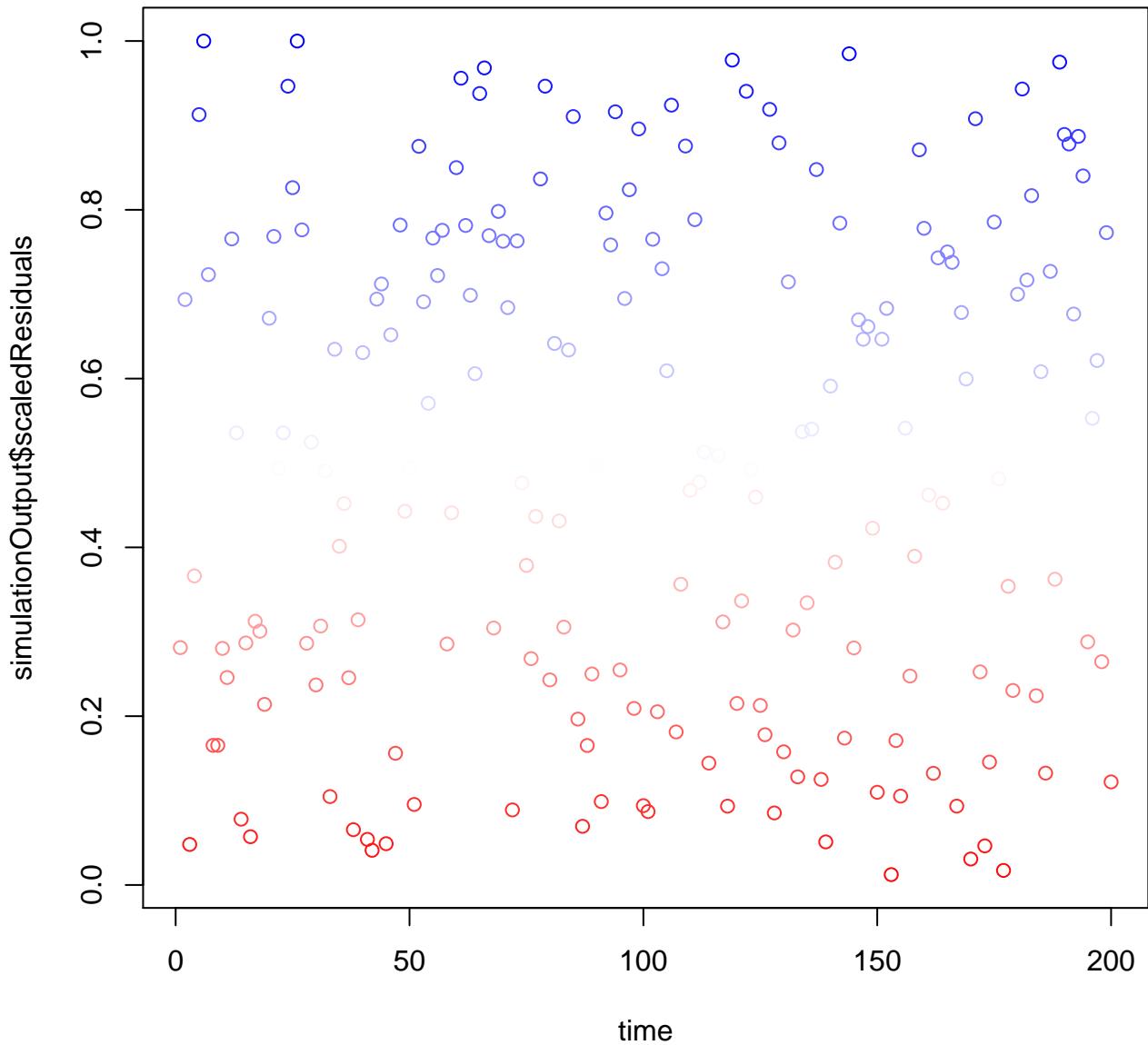
QQ plot residuals

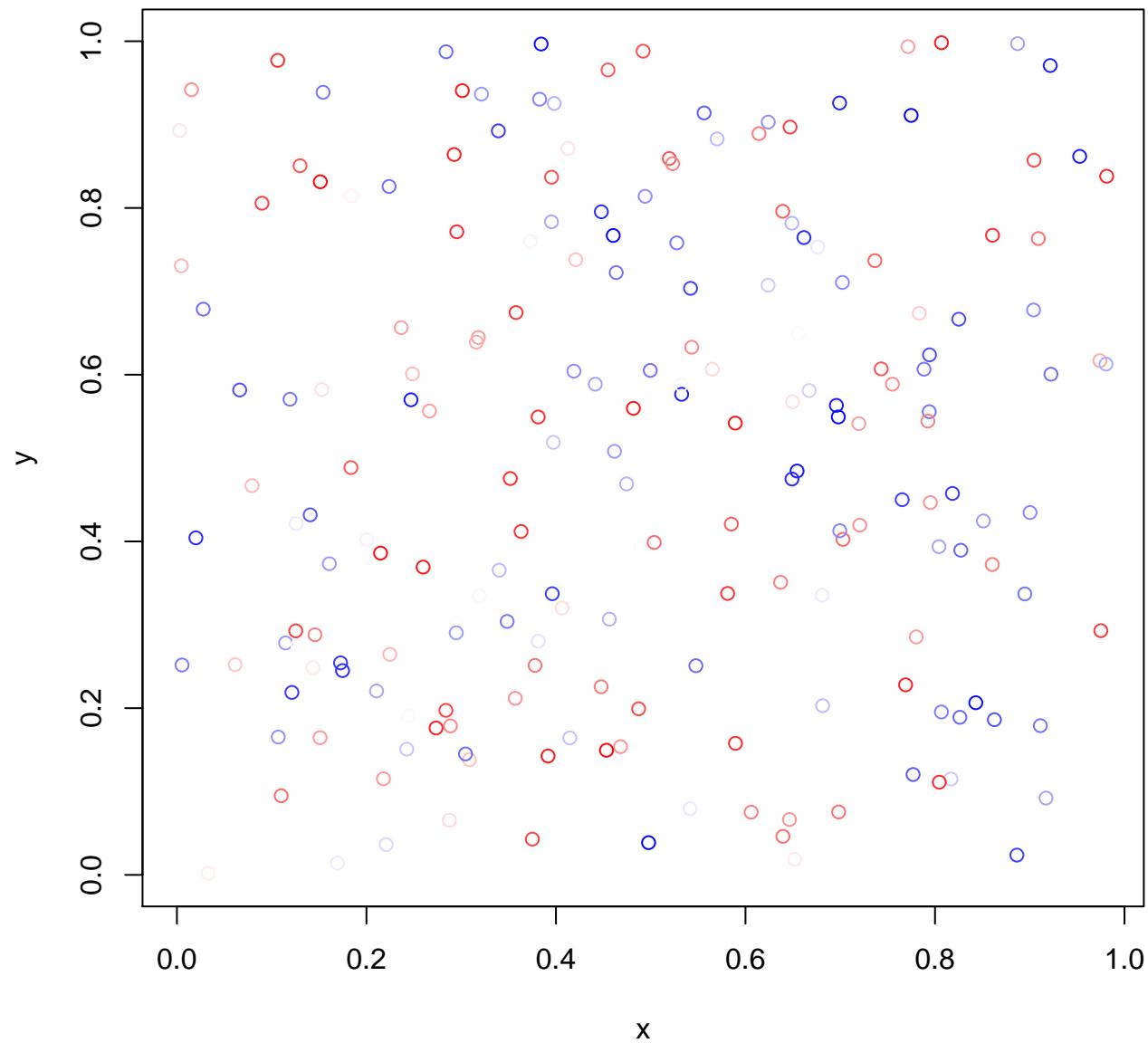


DHARMA zero-inflation test via comparison to expected zeros with simulation under $H_0 =$ fitted model

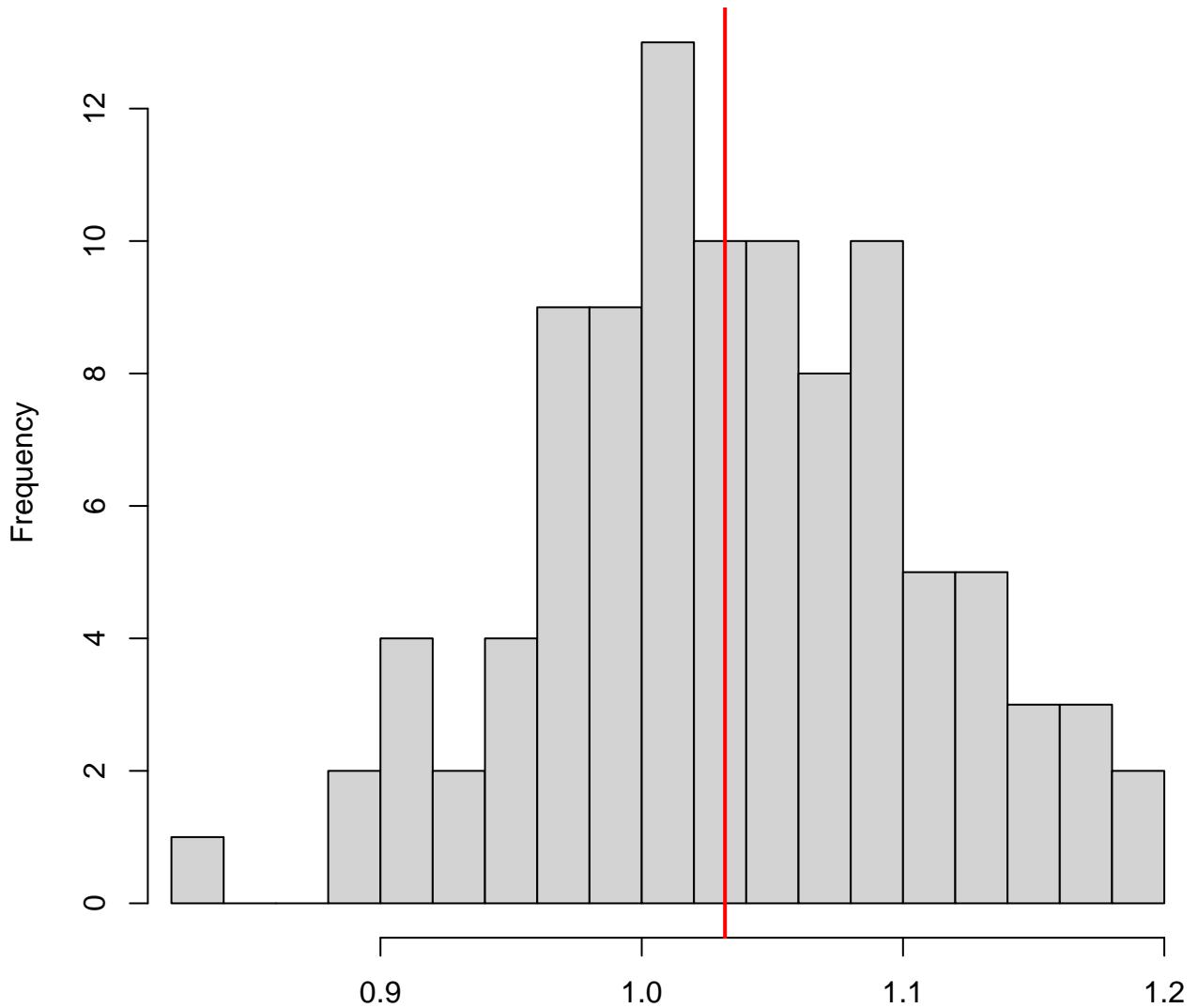


Simulated values, red line = fitted model. p-value (two.sided) = 1



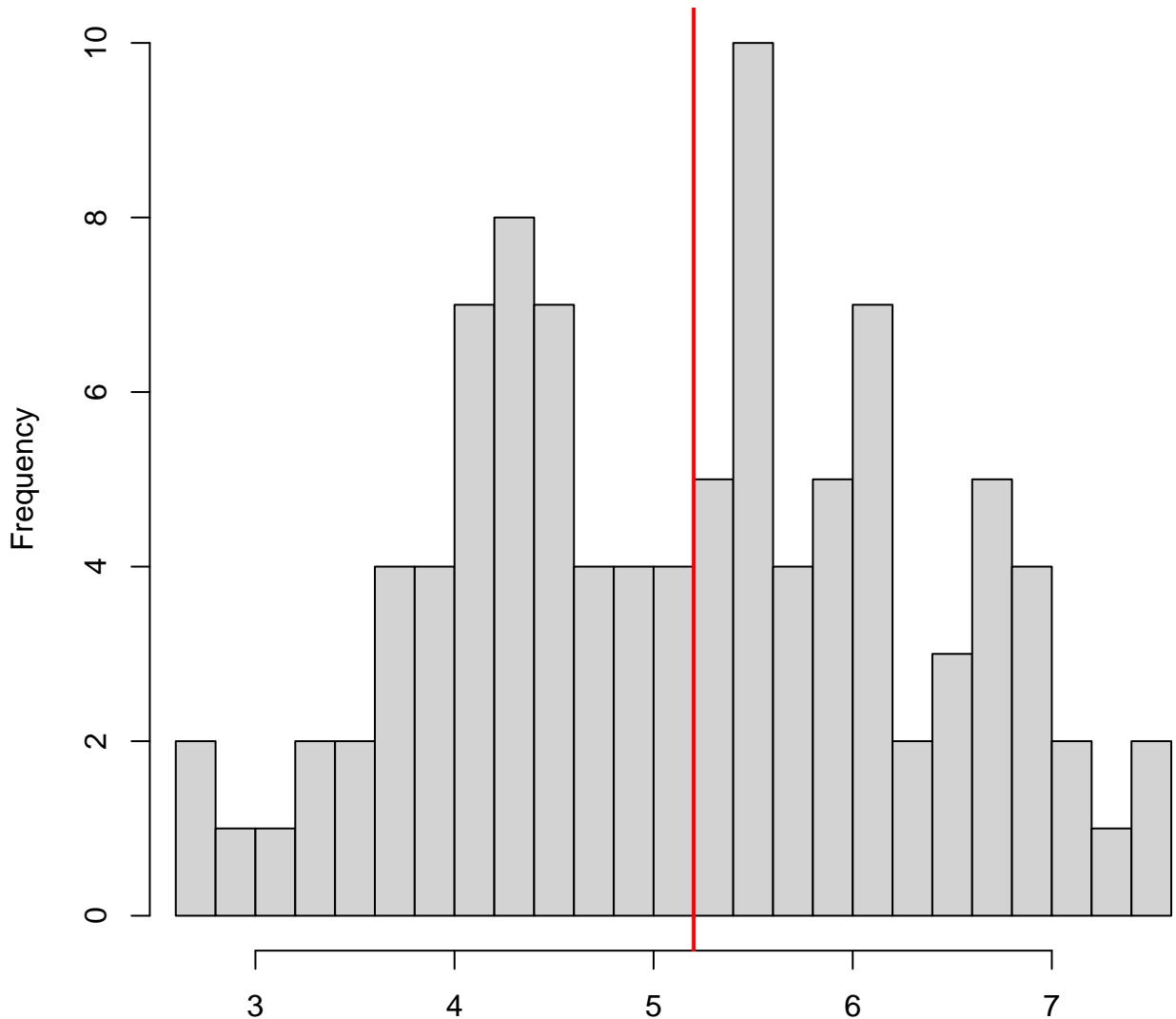


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



Simulated values, red line = fitted model. p-value (two.sided) = 1

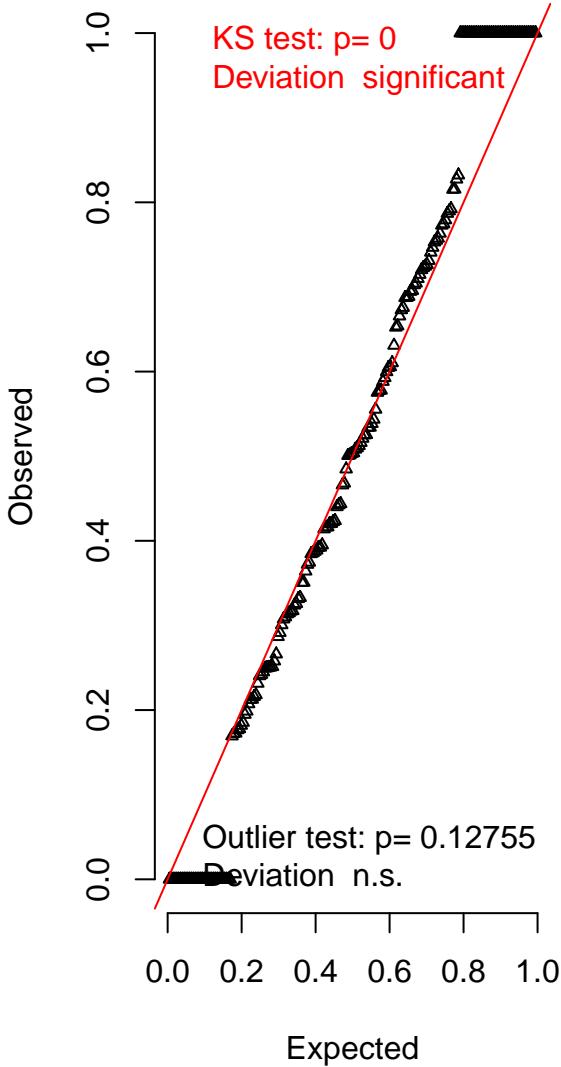
DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



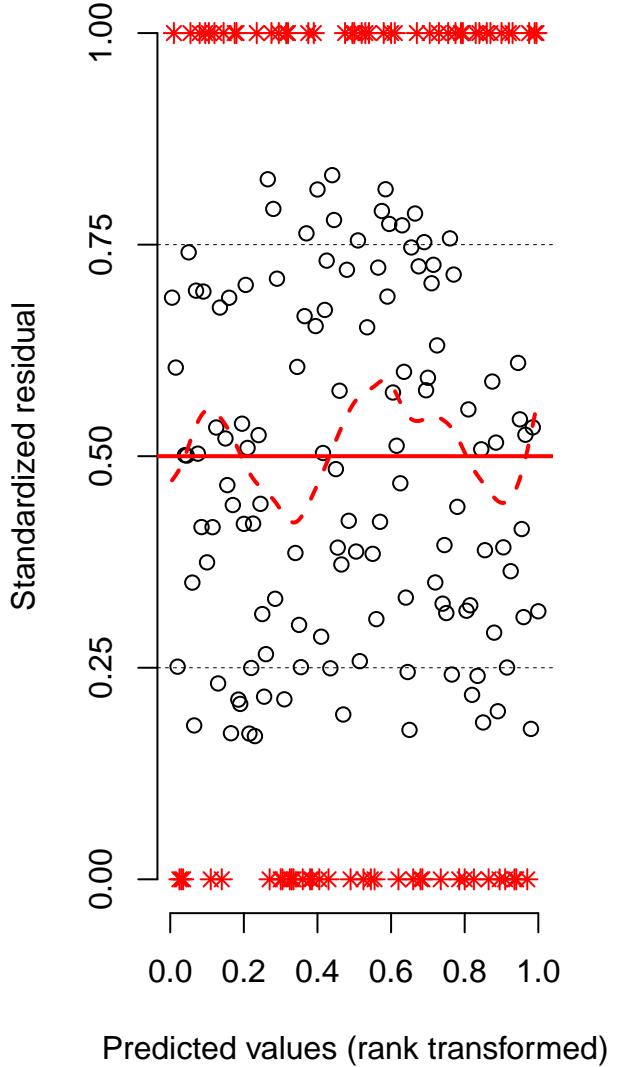
Simulated values, red line = fitted model. p-value (two.sided) = 1

DHARMA scaled residual plots

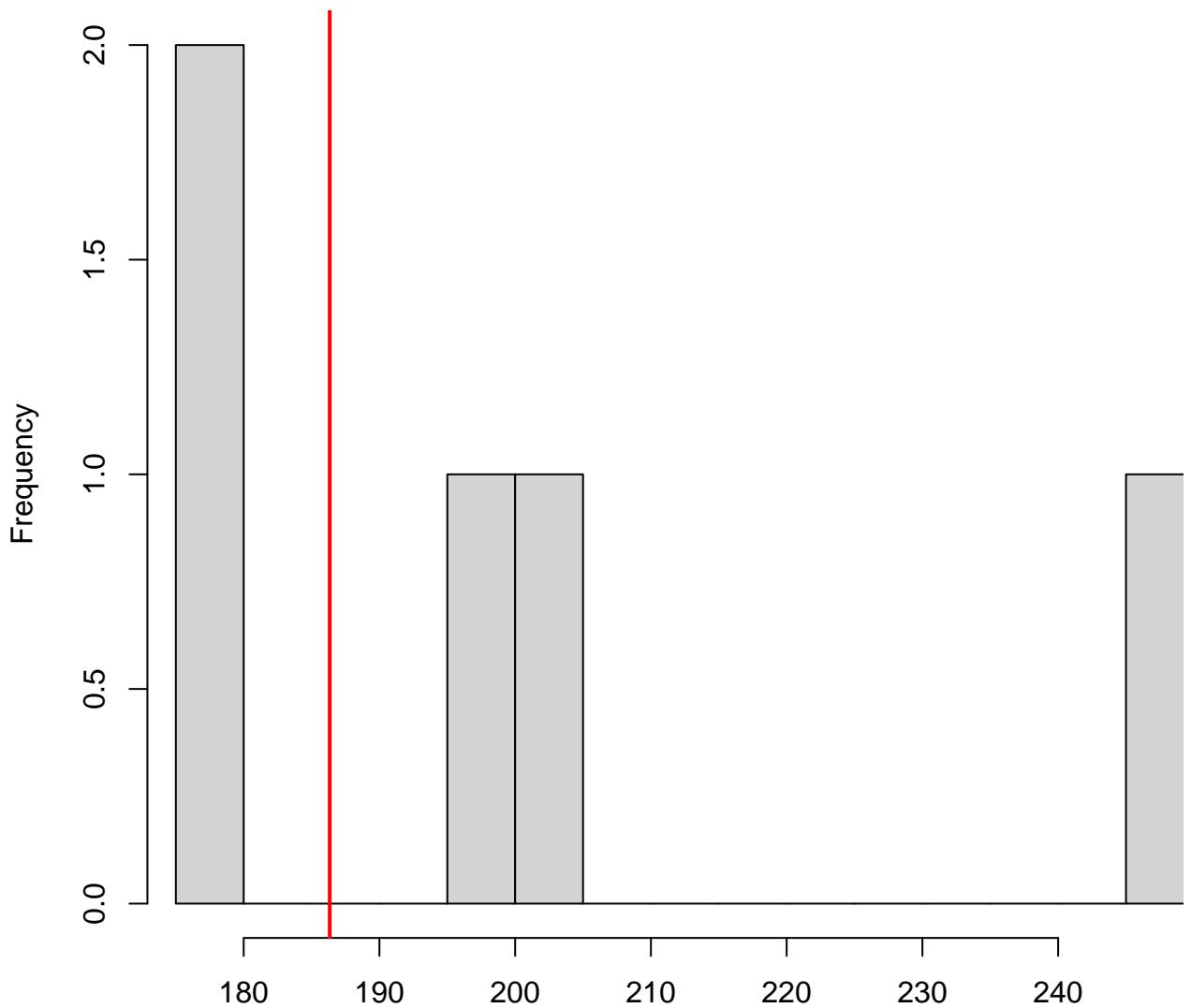
QQ plot residuals



Residual vs. predicted lines should match

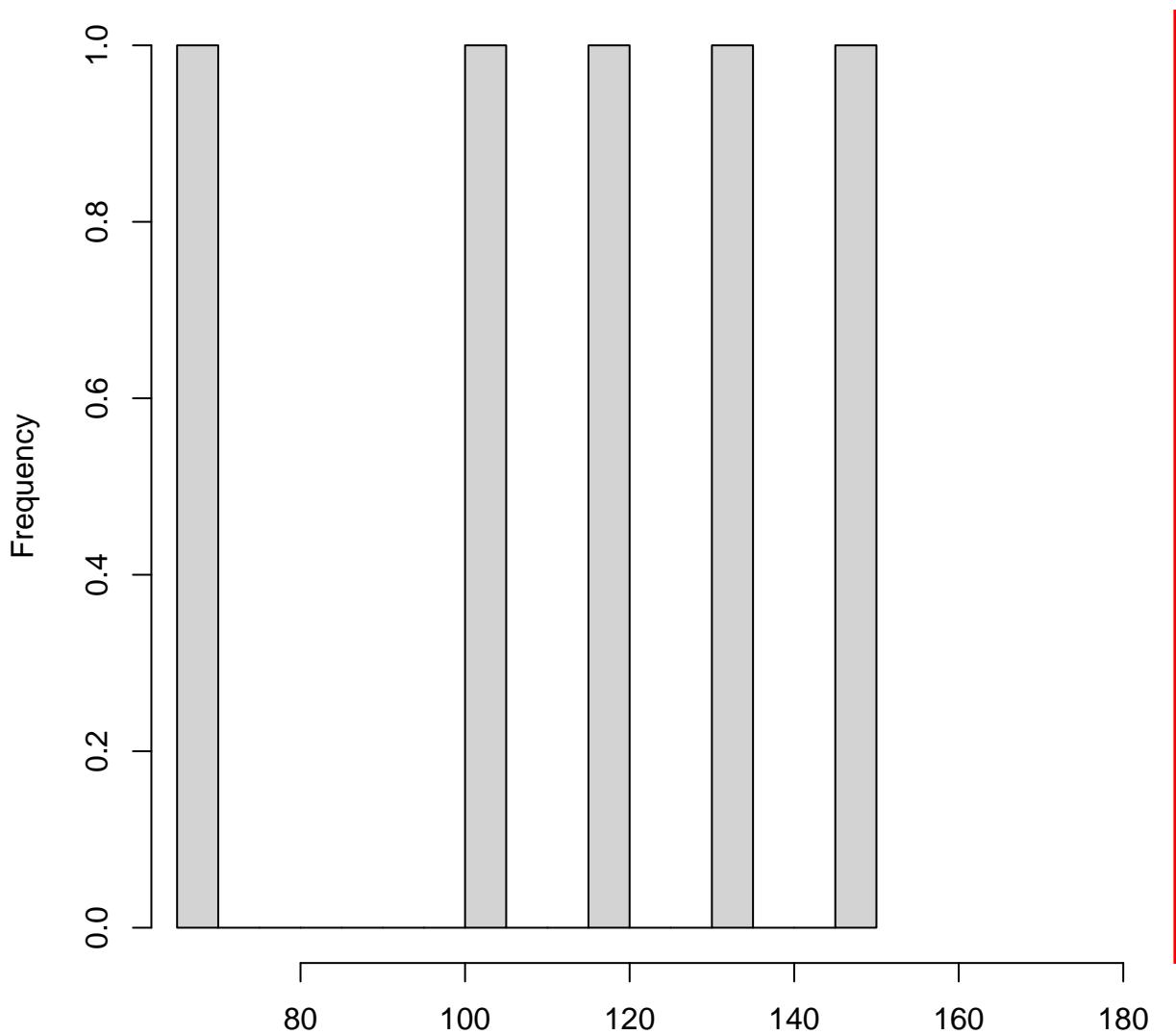


DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



Simulated values, red line = fitted model. p-value (two.sided) = 0.8

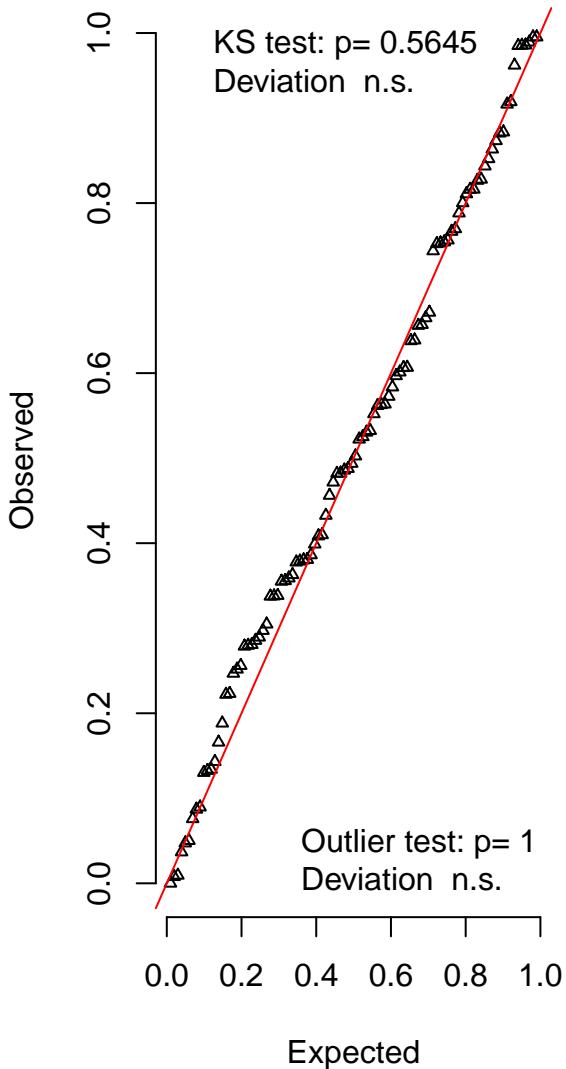
DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



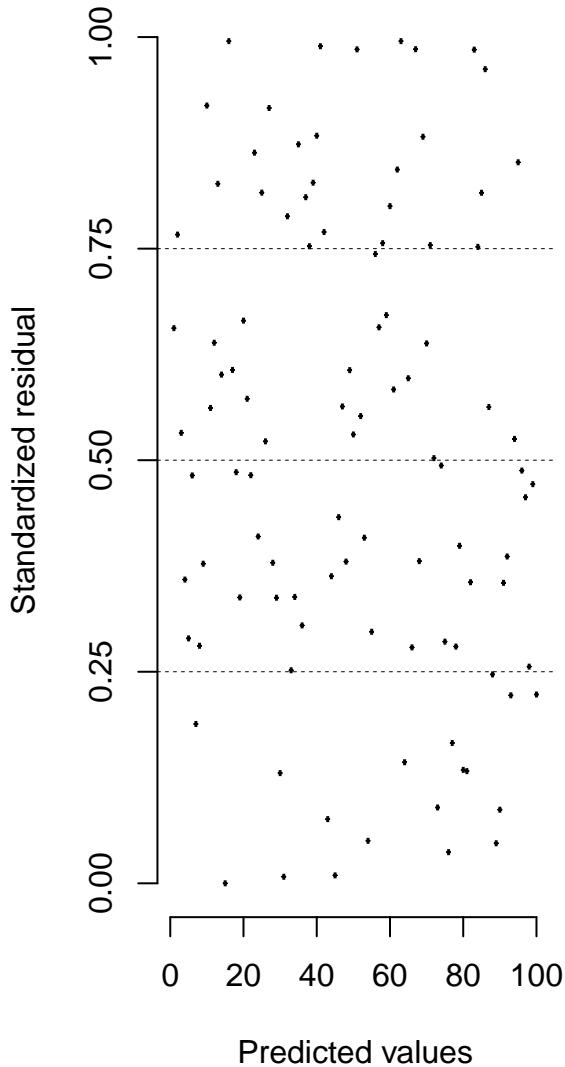
Simulated values, red line = fitted model. p-value (two.sided) = 0

DHARMA scaled residual plots

QQ plot residuals

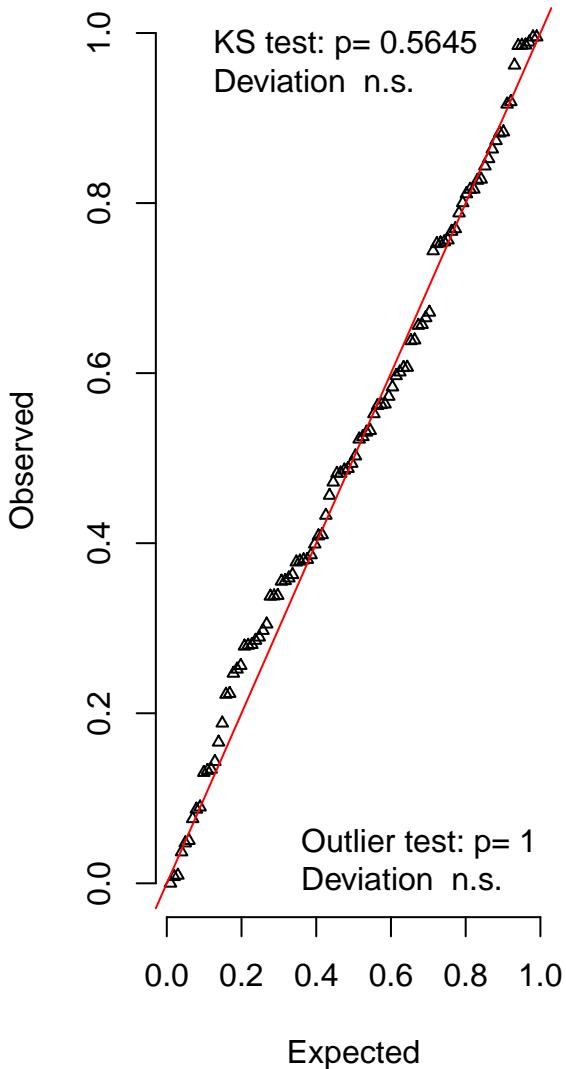


Residual vs. predicted lines should match

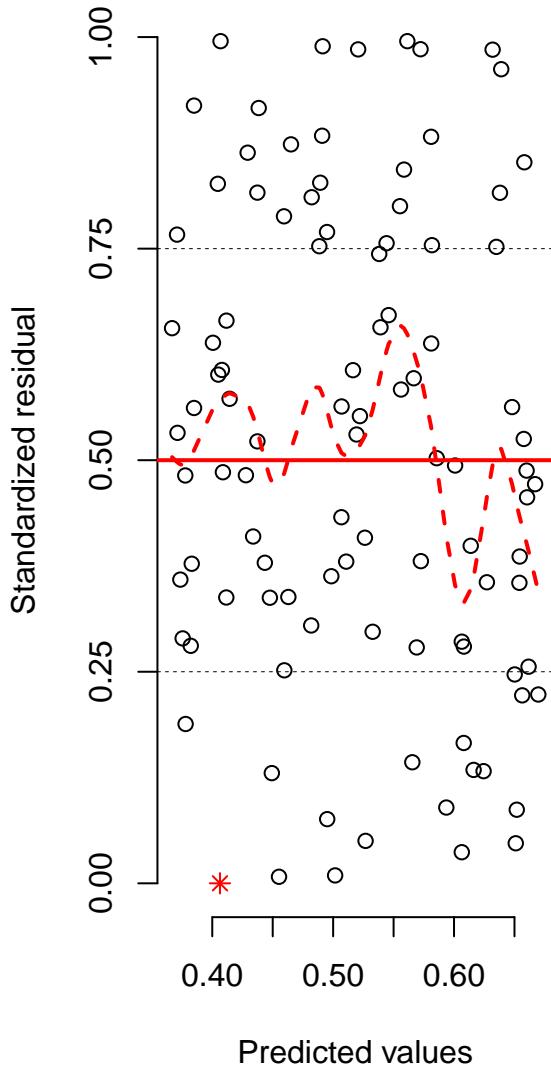


DHARMA scaled residual plots

QQ plot residuals

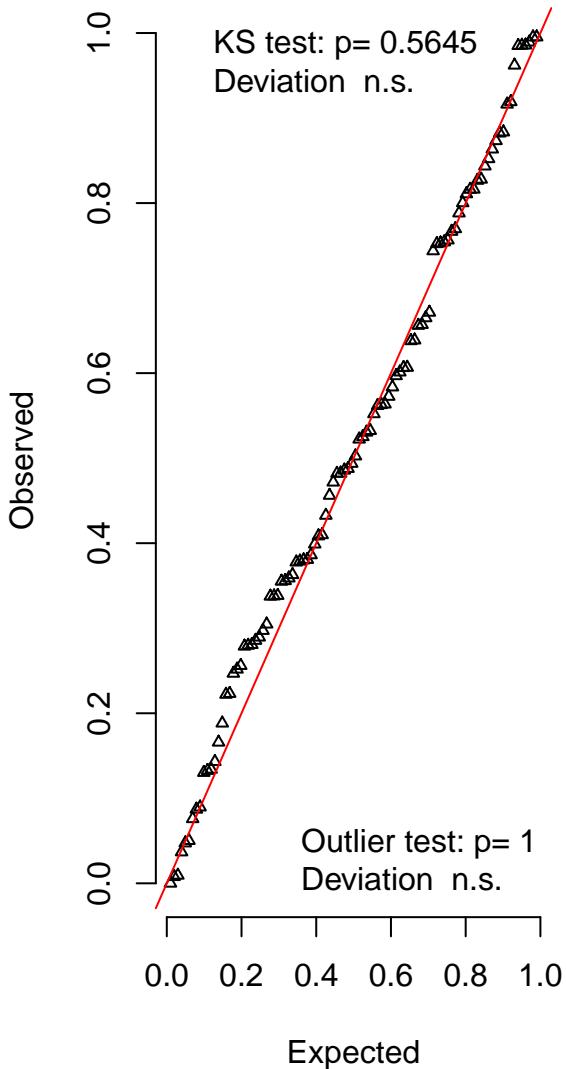


Residual vs. predicted lines should match

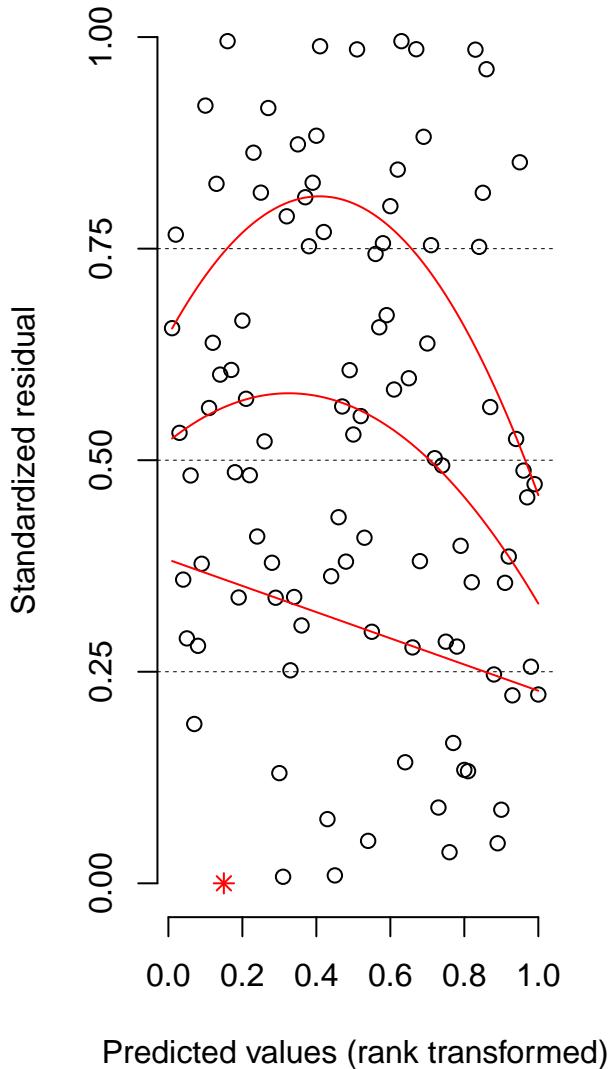


DHARMA scaled residual plots

QQ plot residuals

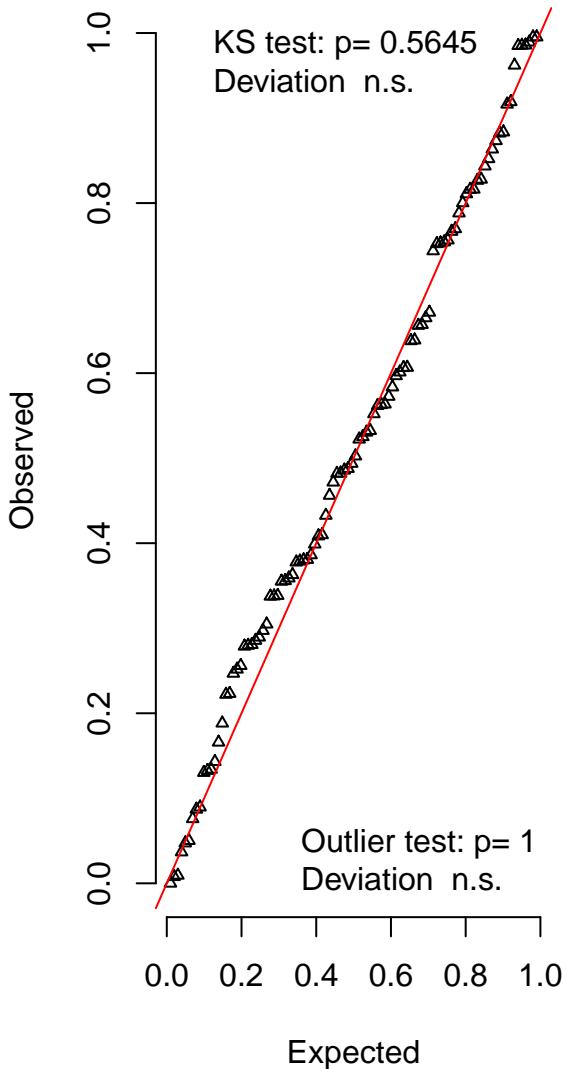


Residual vs. predicted lines should match

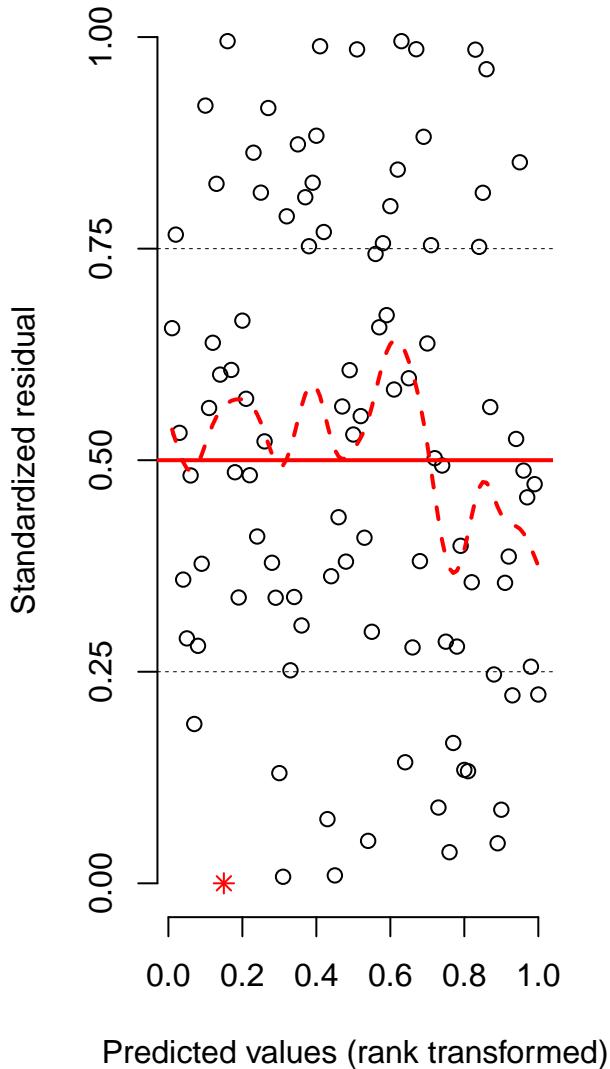


DHARMA scaled residual plots

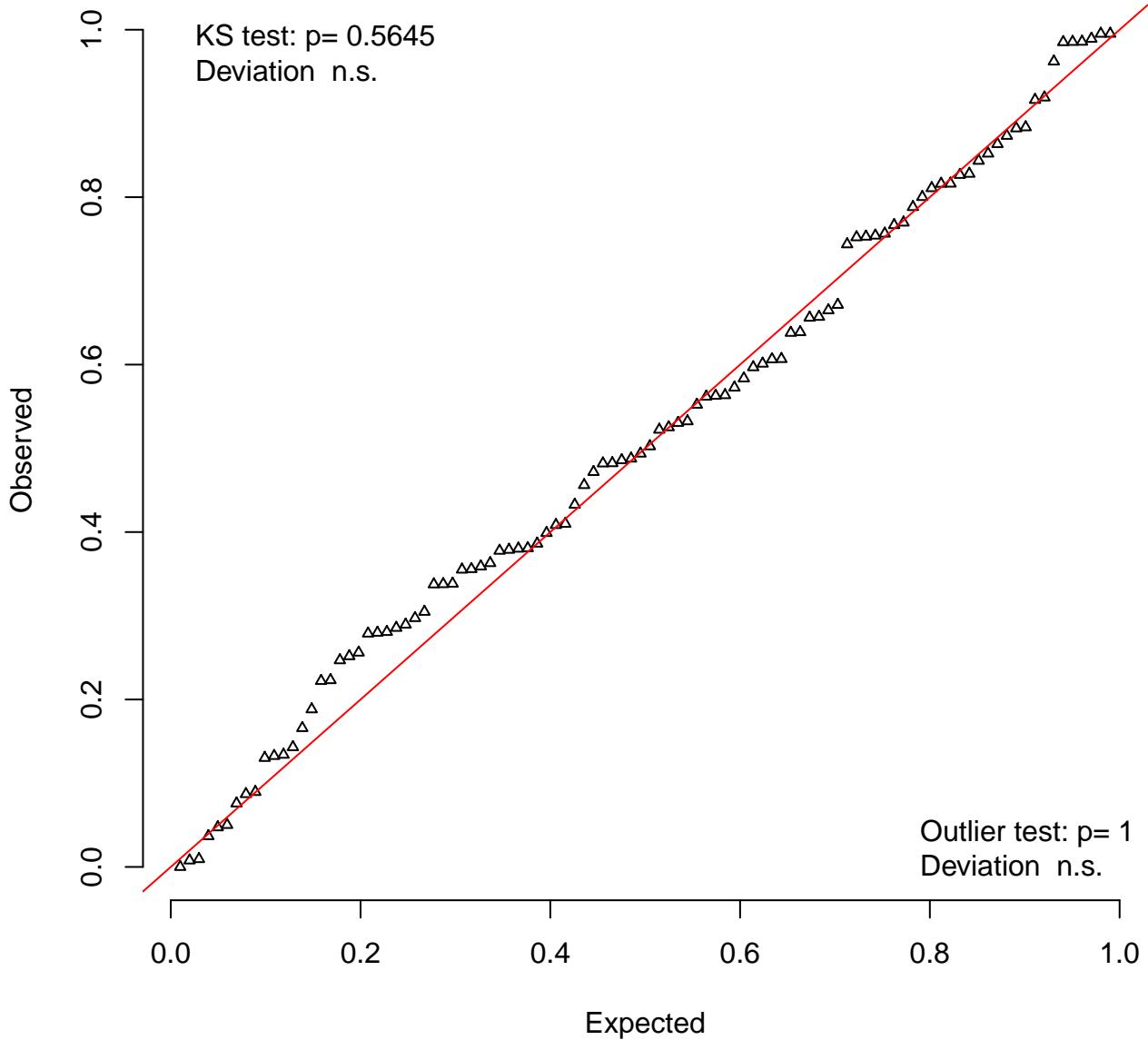
QQ plot residuals

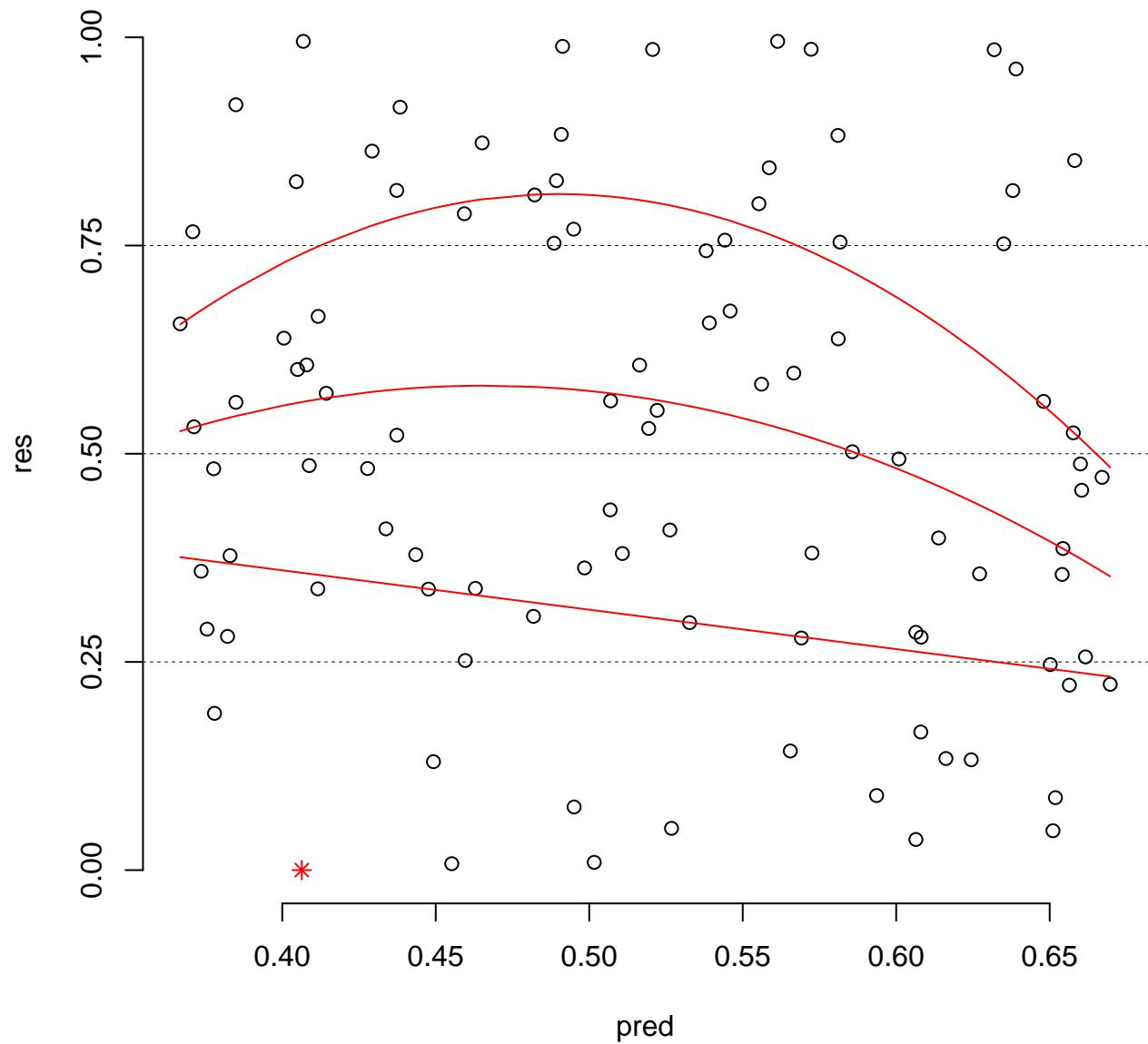


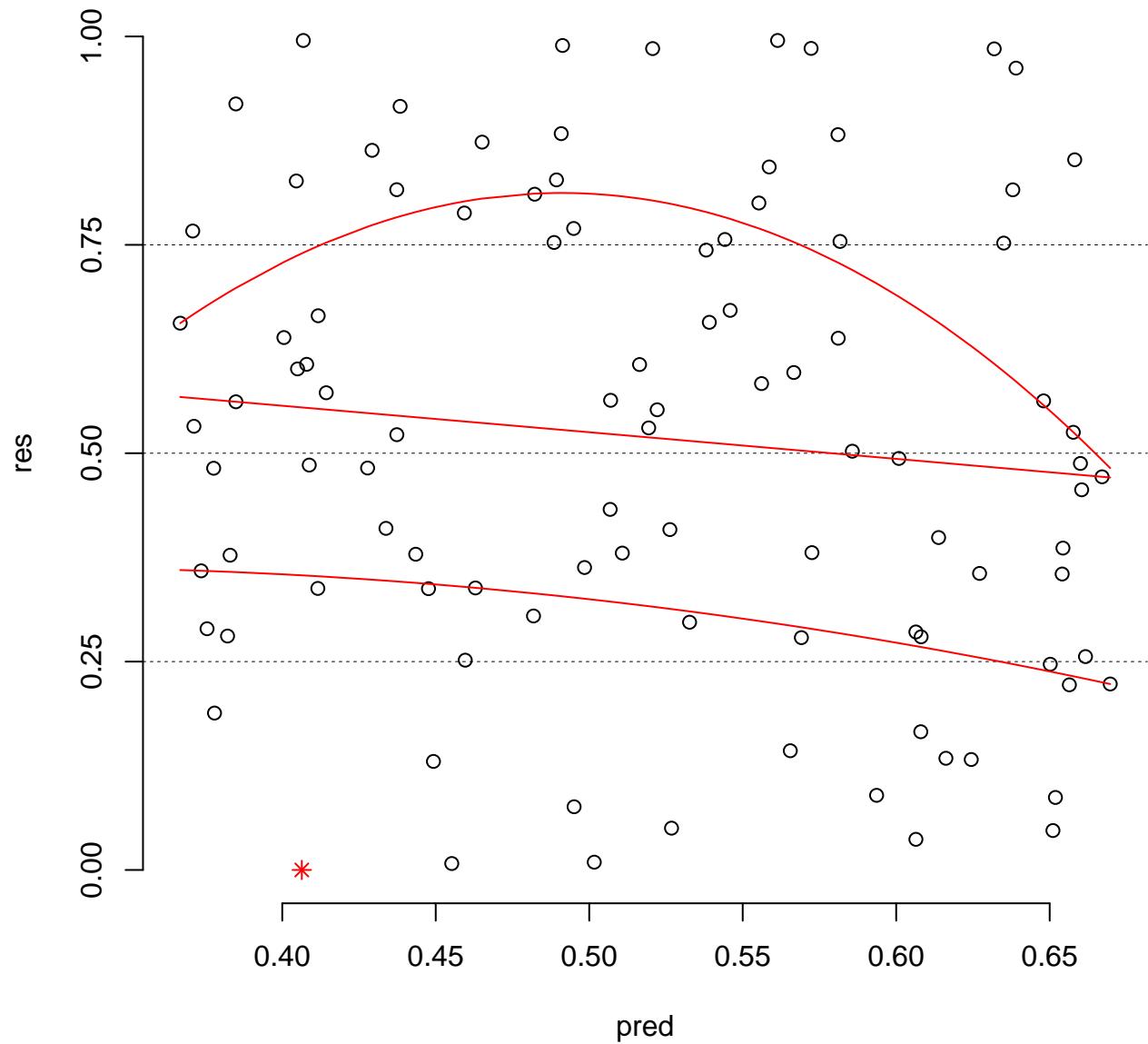
Residual vs. predicted lines should match



QQ plot residuals

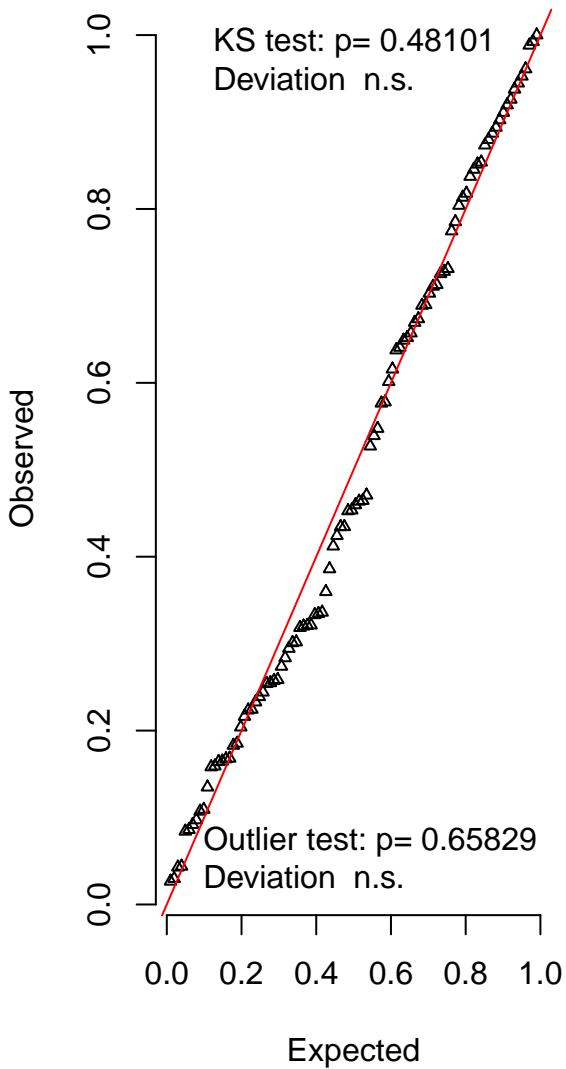




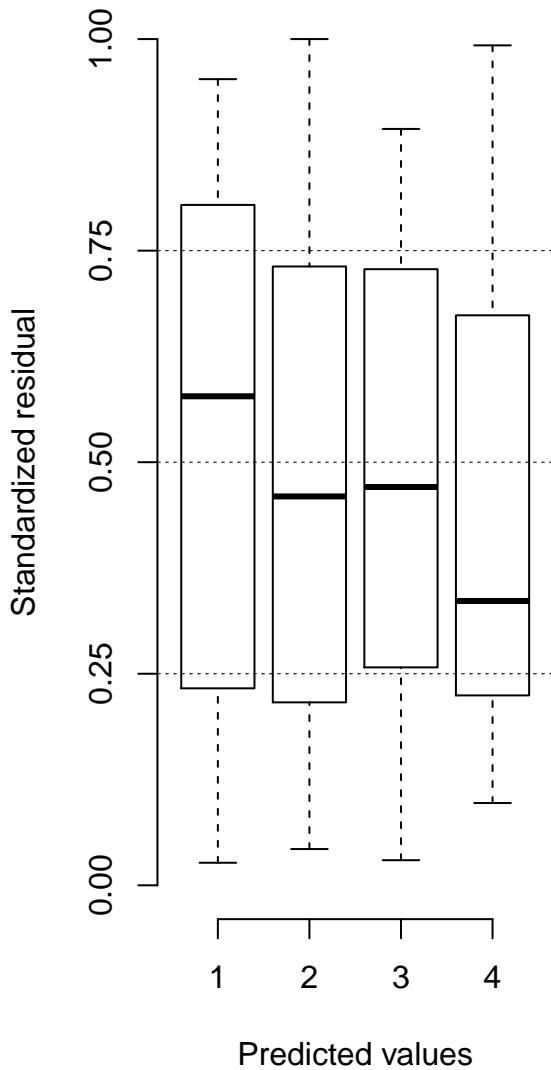


DHARMA scaled residual plots

QQ plot residuals

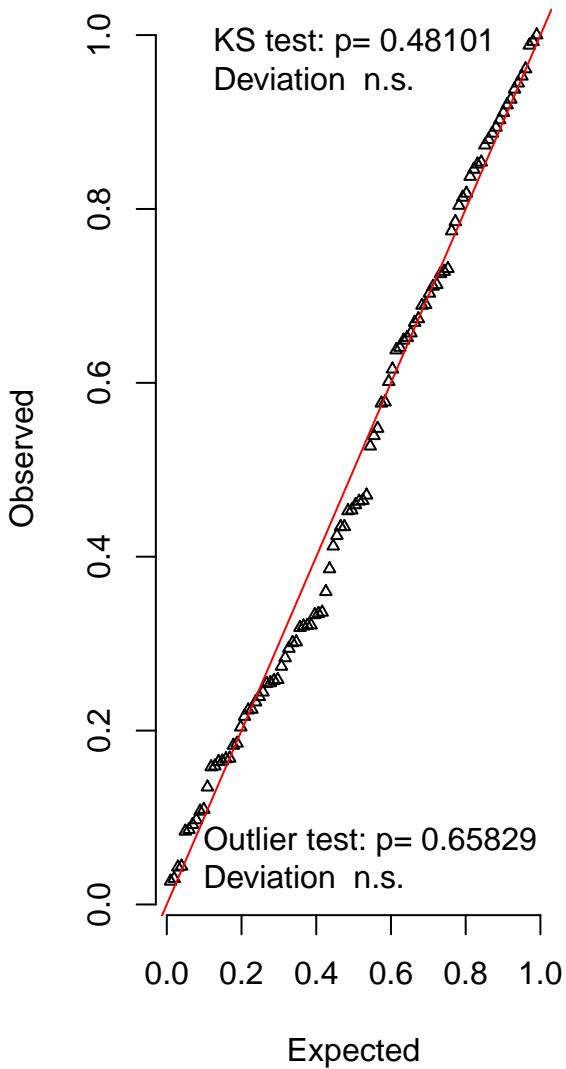


Residual vs. predicted lines should match

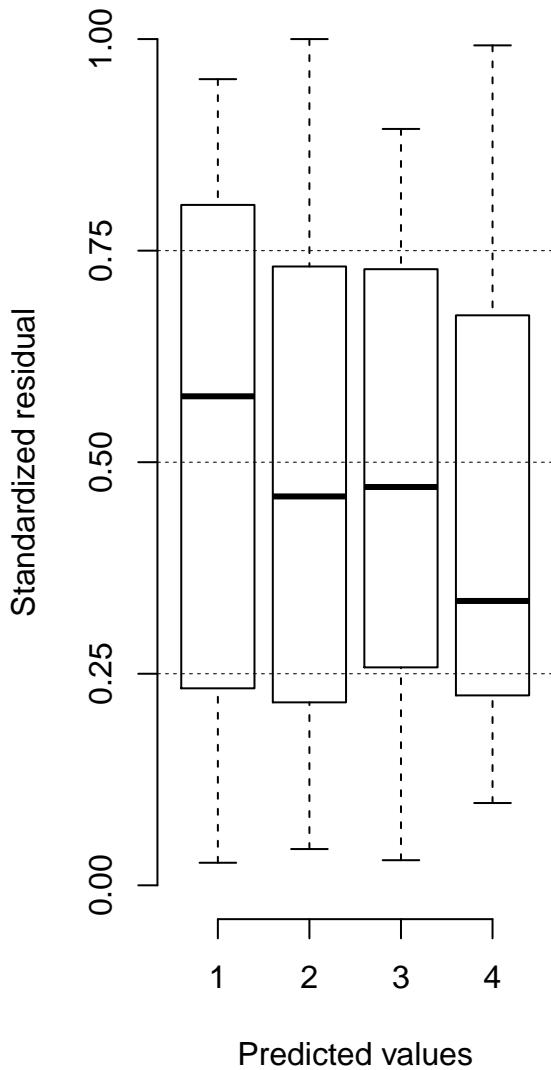


DHARMA scaled residual plots

QQ plot residuals

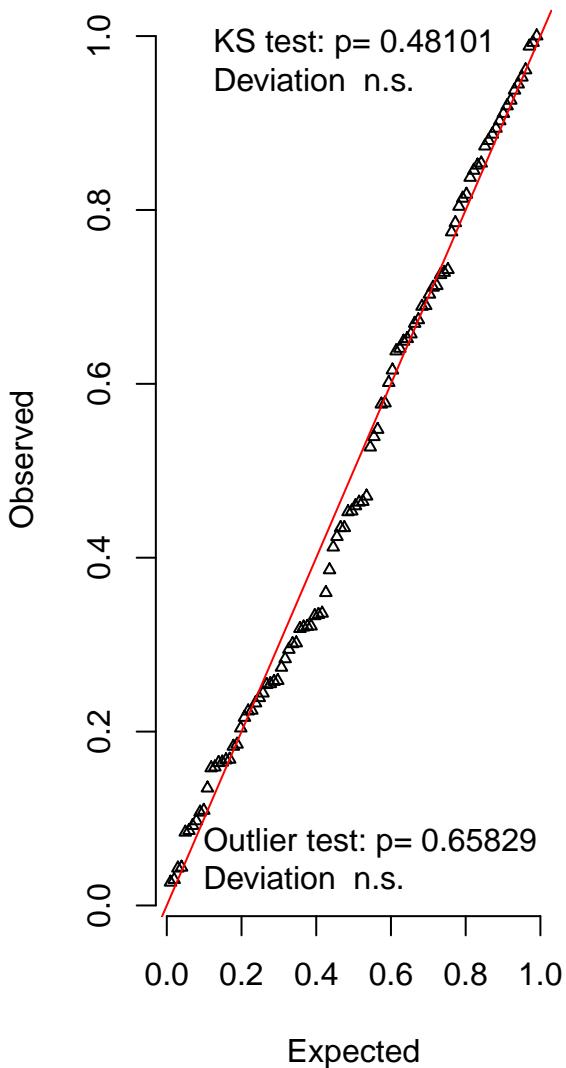


Residual vs. predicted lines should match

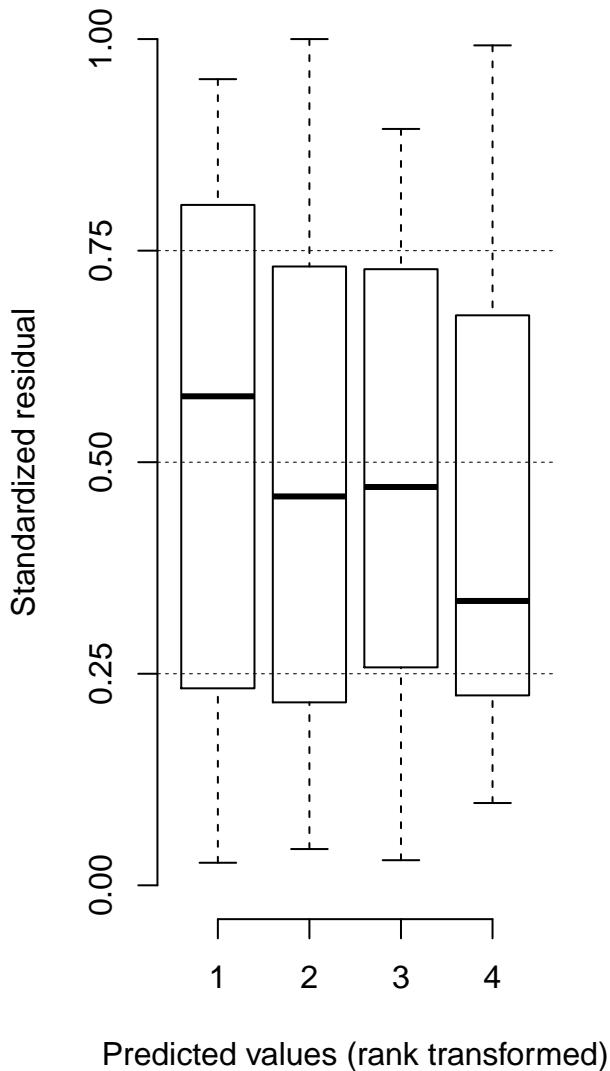


DHARMA scaled residual plots

QQ plot residuals

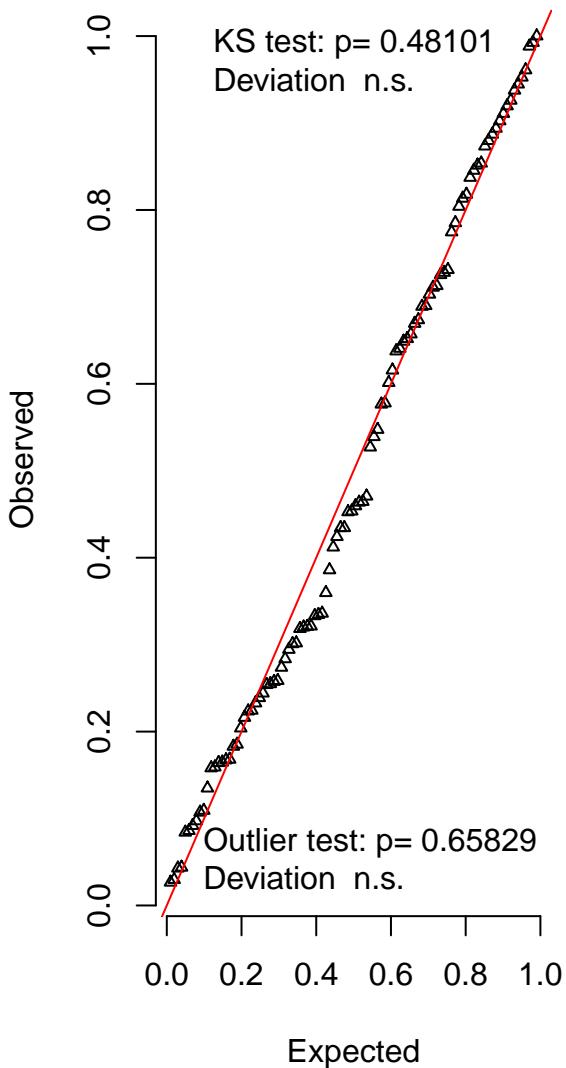


Residual vs. predicted lines should match

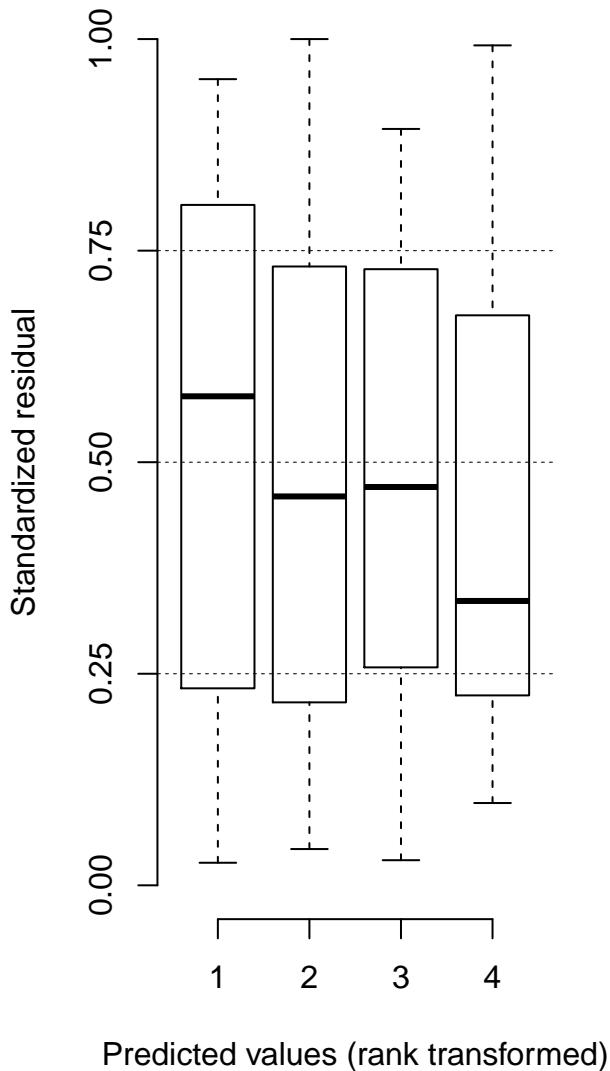


DHARMA scaled residual plots

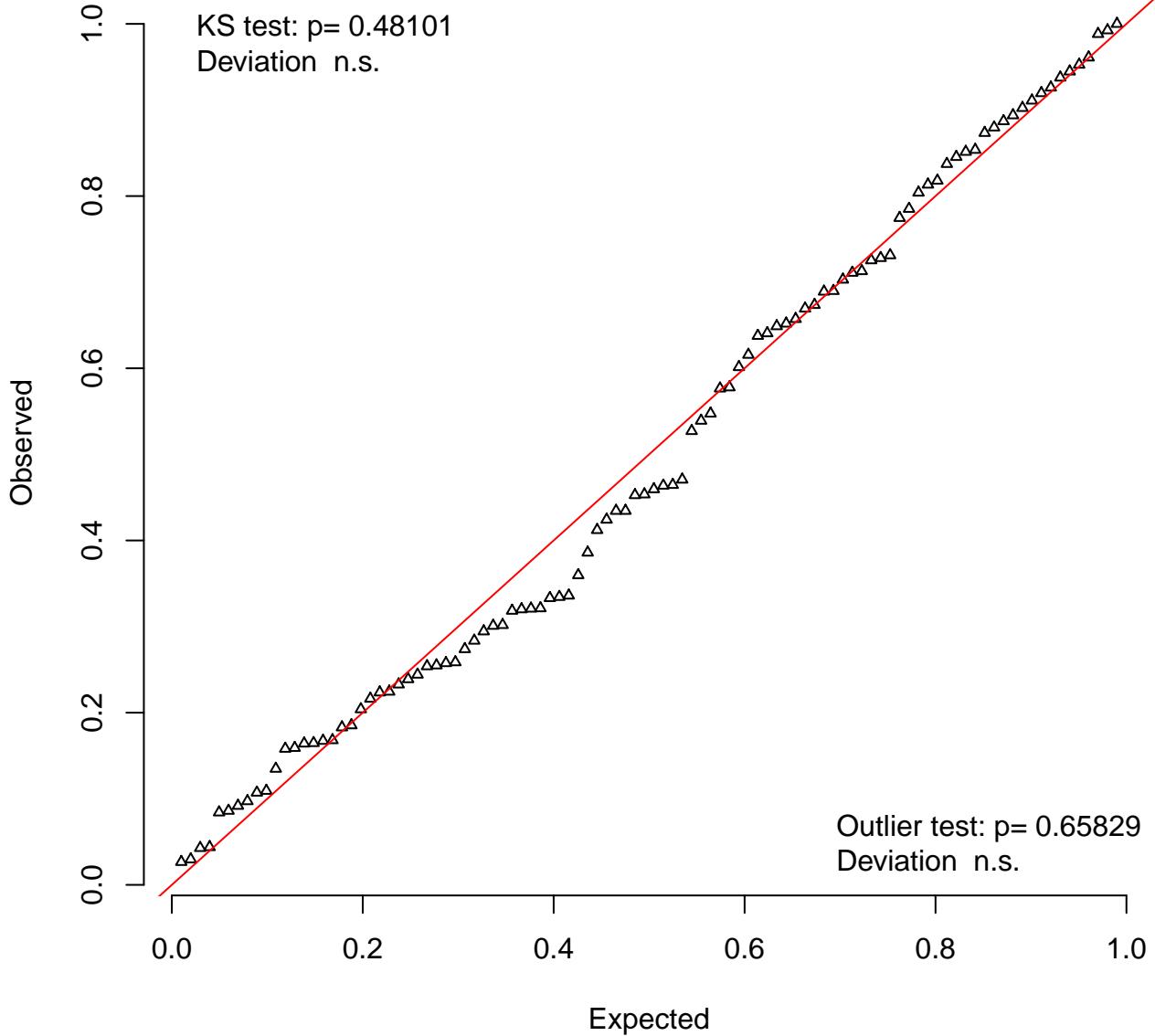
QQ plot residuals

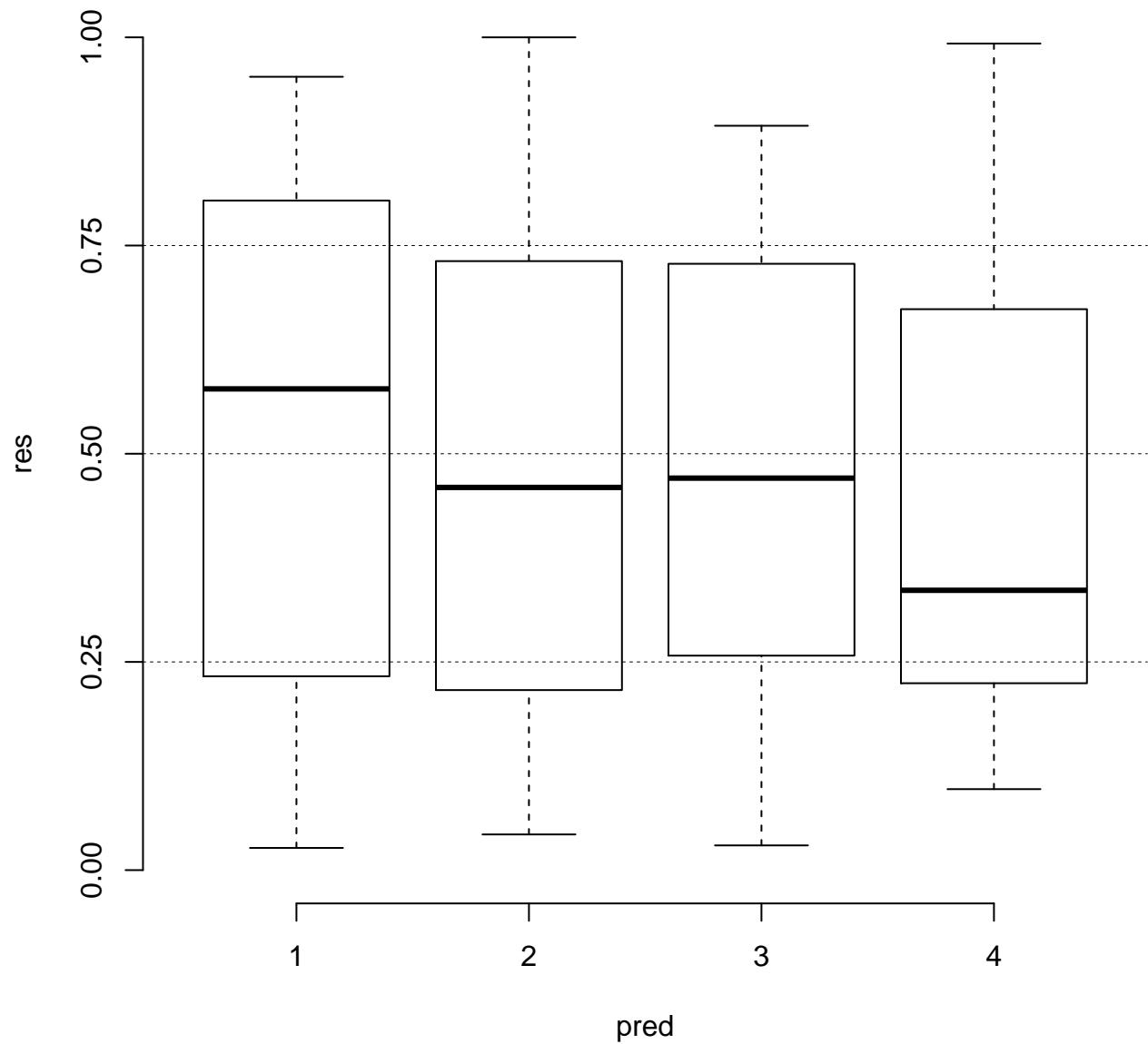


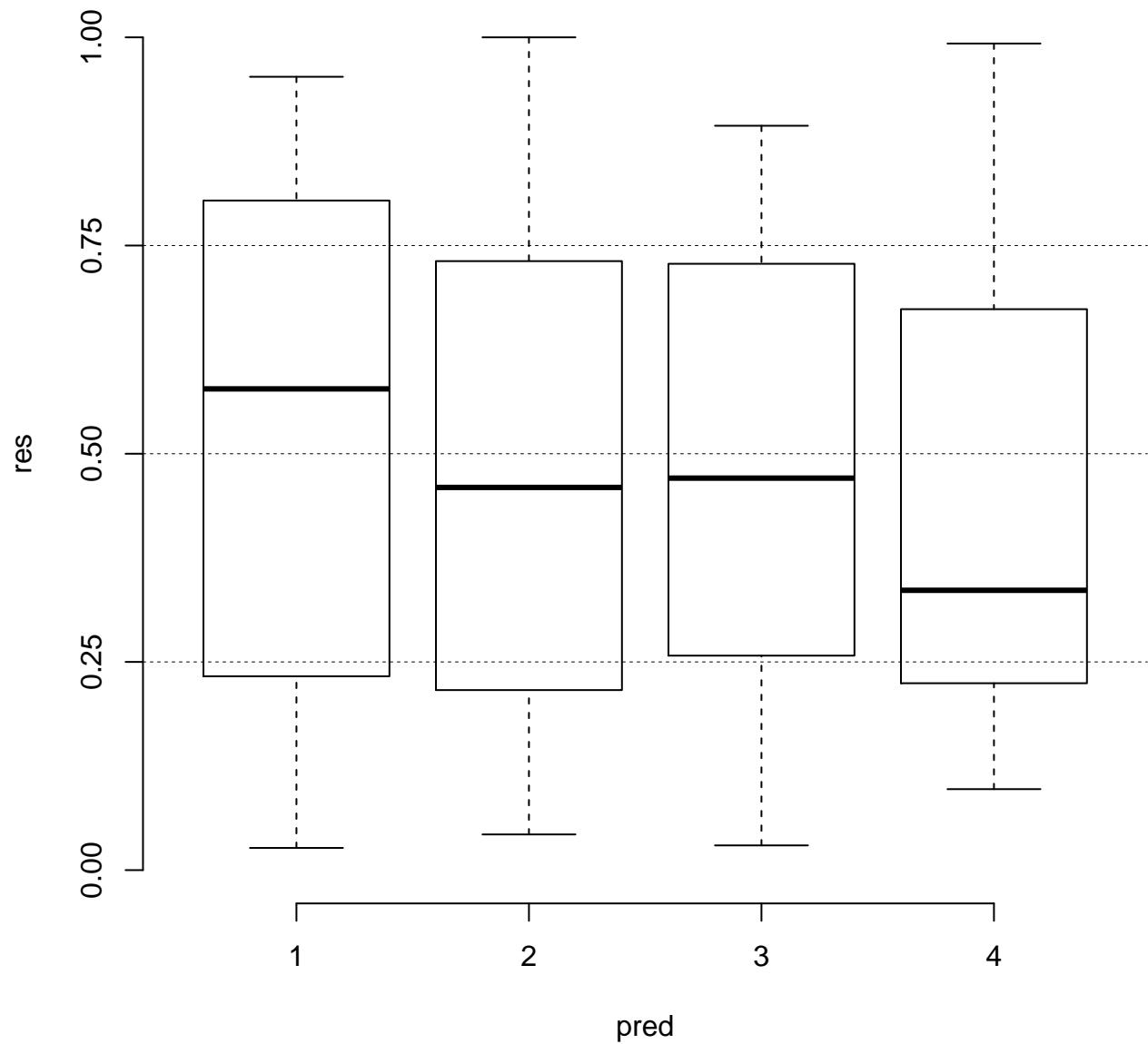
Residual vs. predicted lines should match

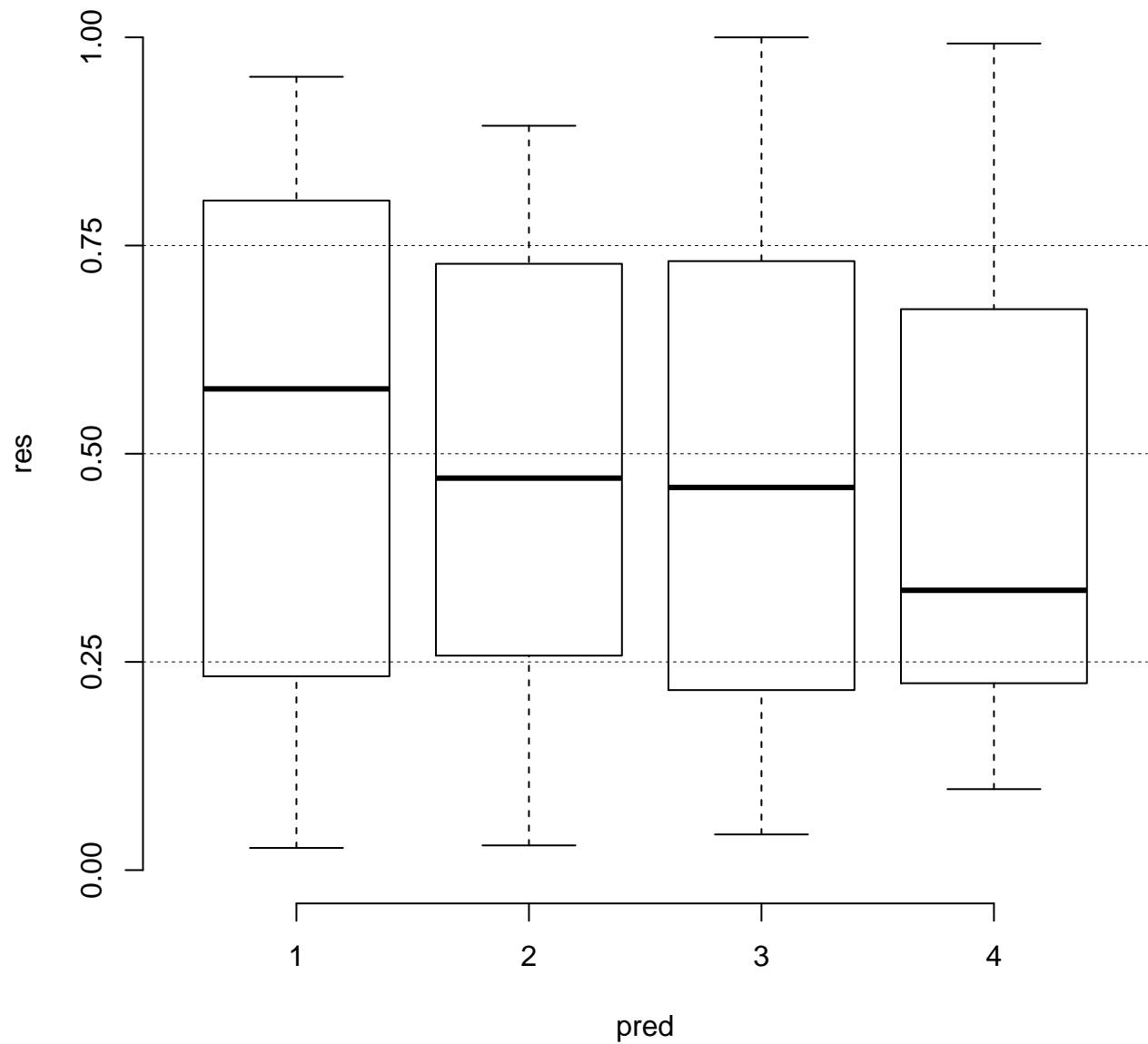


QQ plot residuals



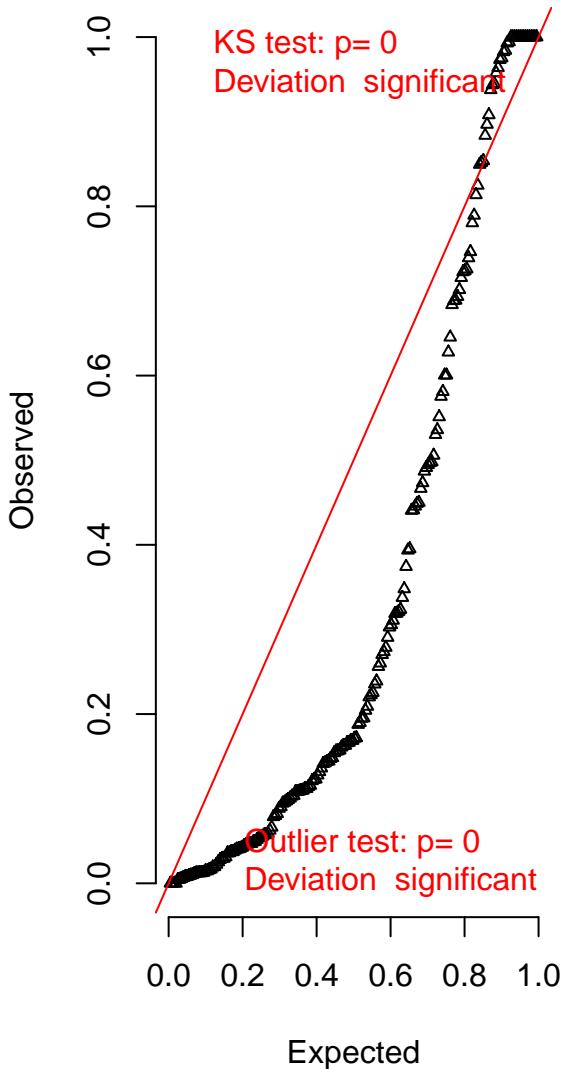




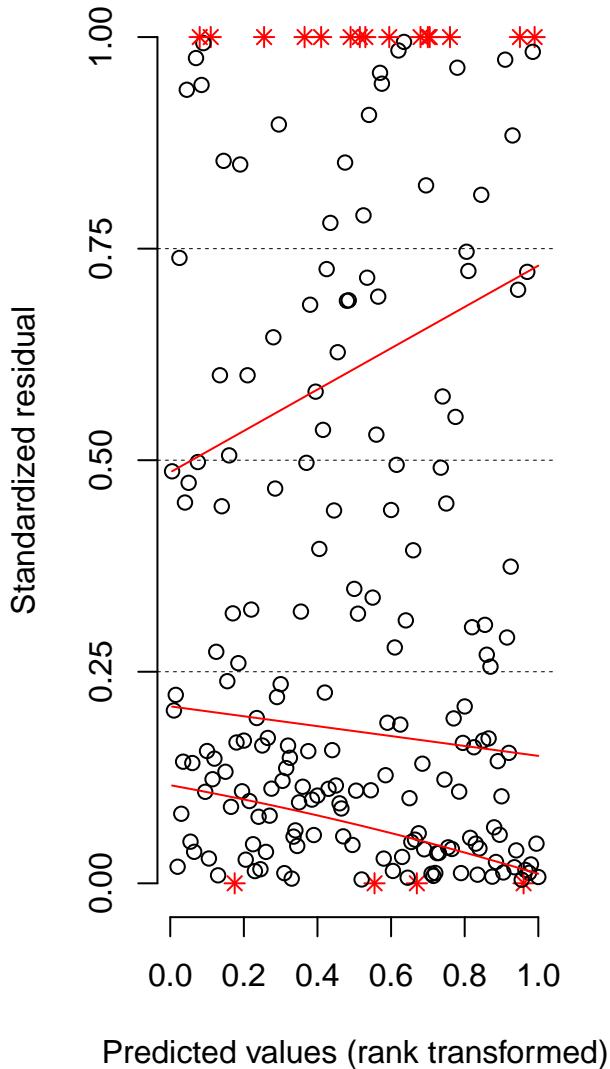


DHARMA scaled residual plots

QQ plot residuals

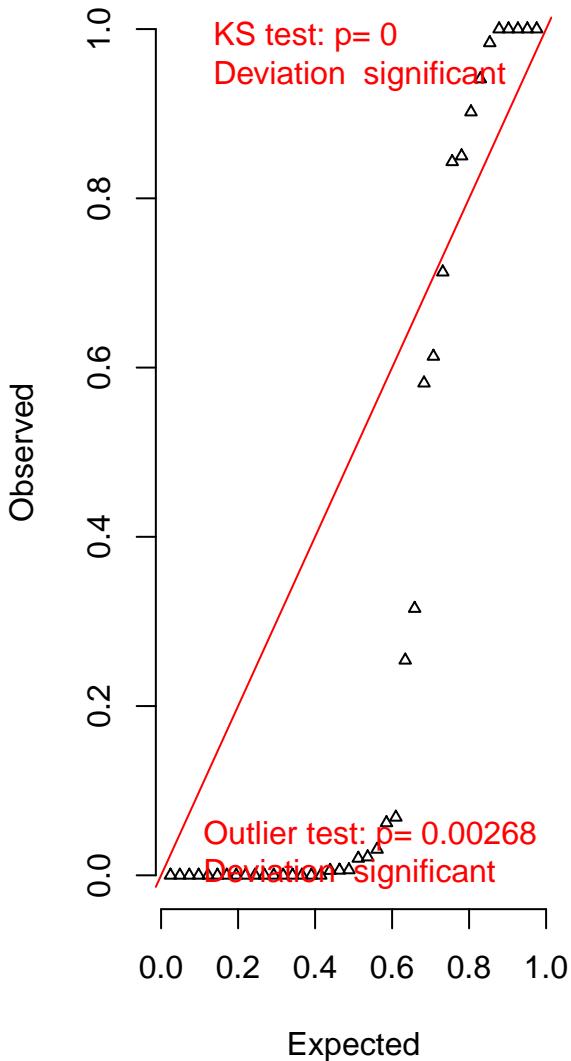


Residual vs. predicted lines should match

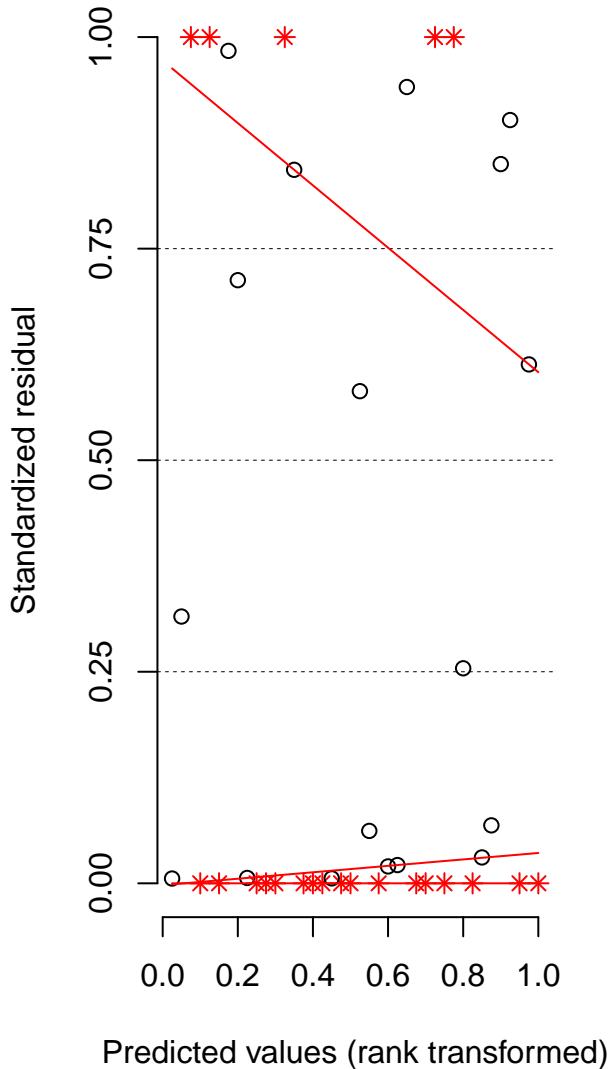


DHARMA scaled residual plots

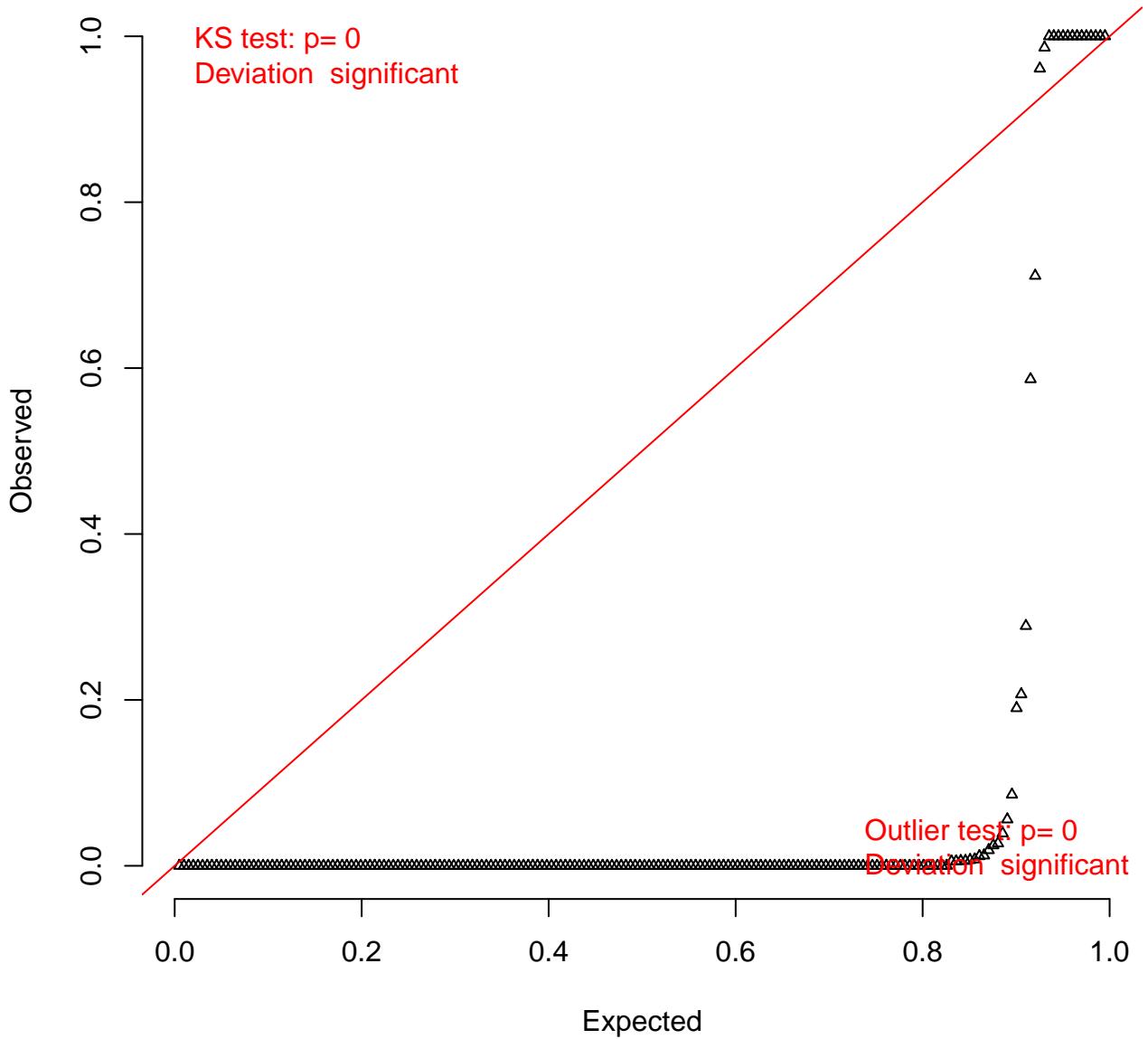
QQ plot residuals



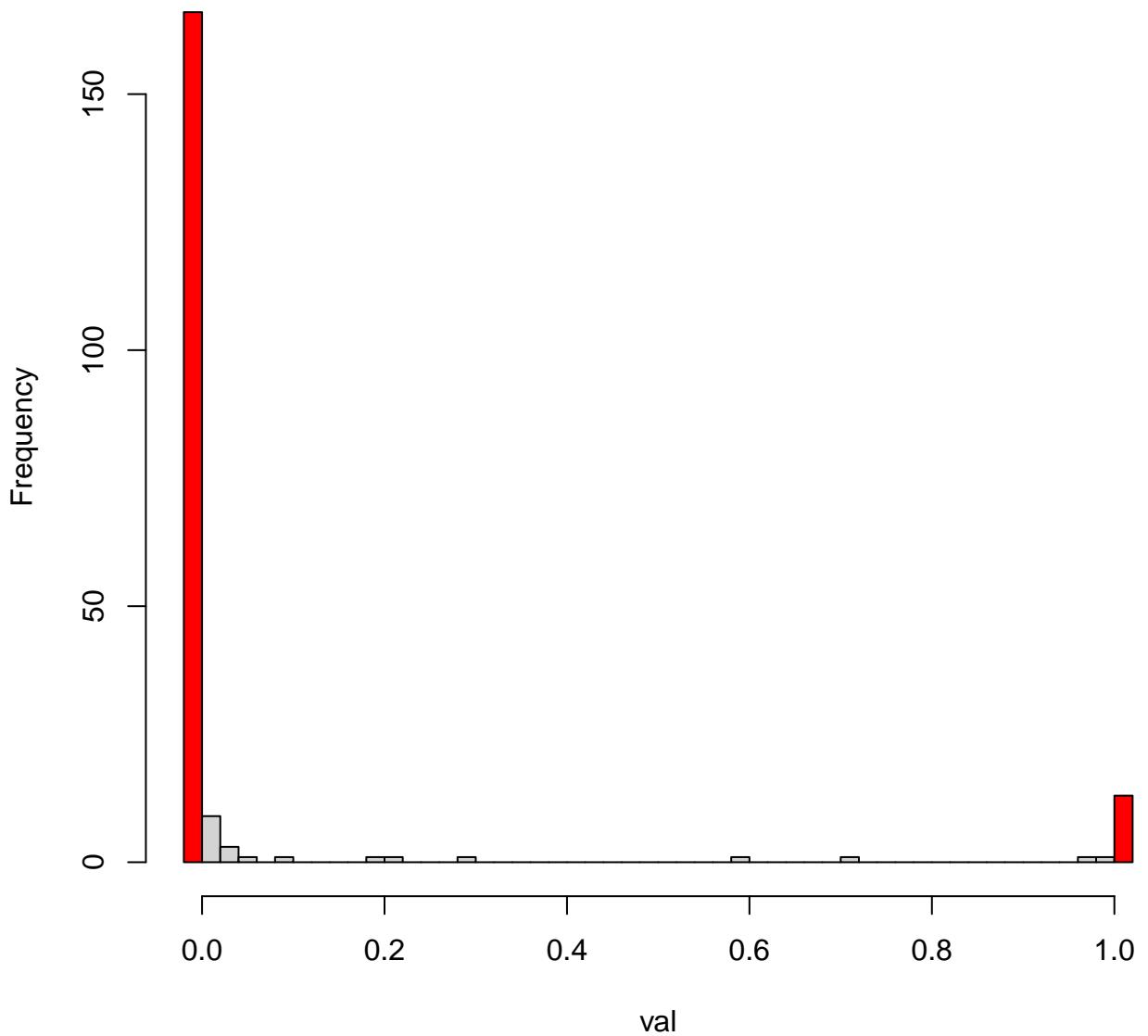
Residual vs. predicted lines should match



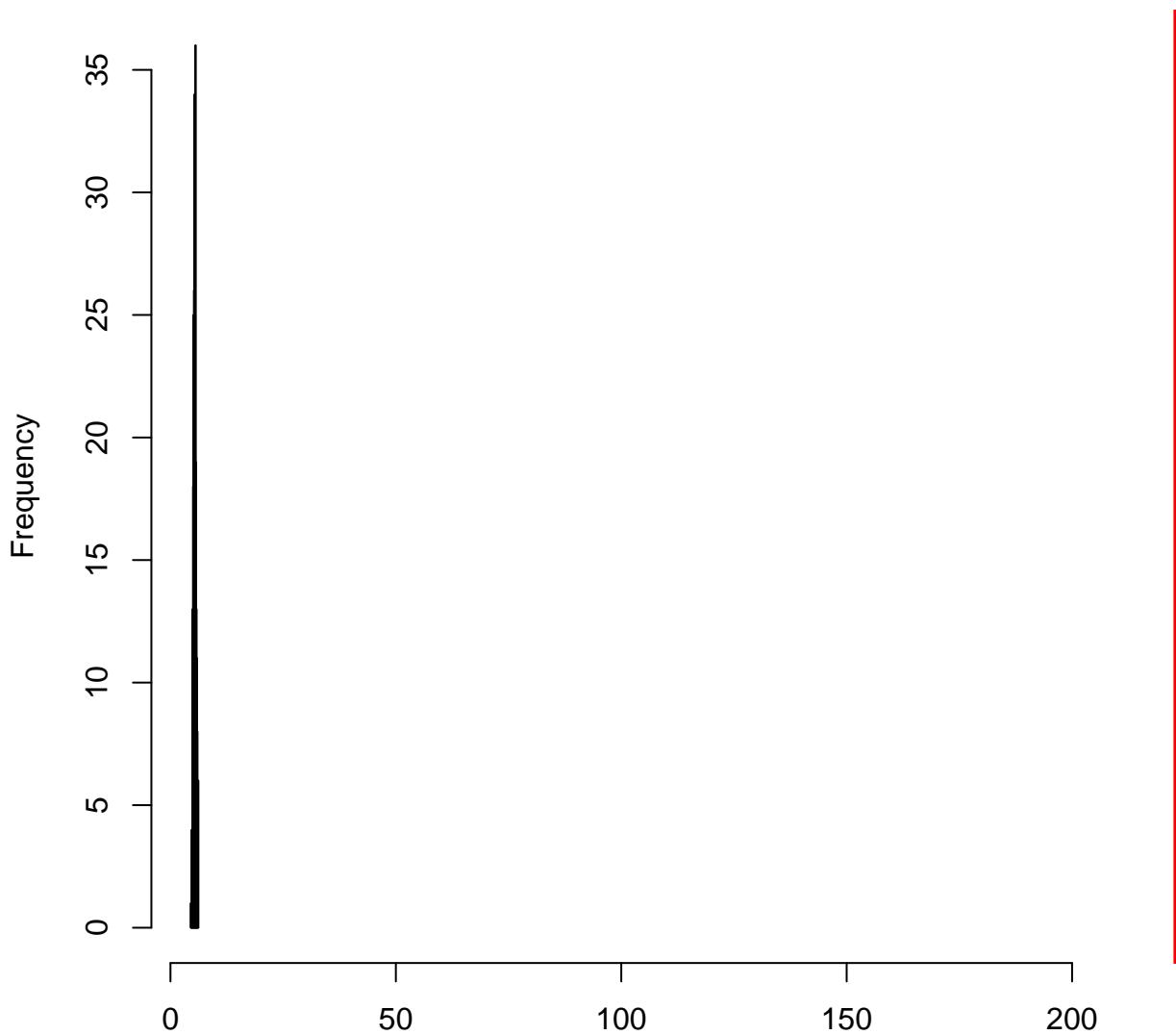
QQ plot residuals



Hist of DHARMa residuals
Outliers are marked red

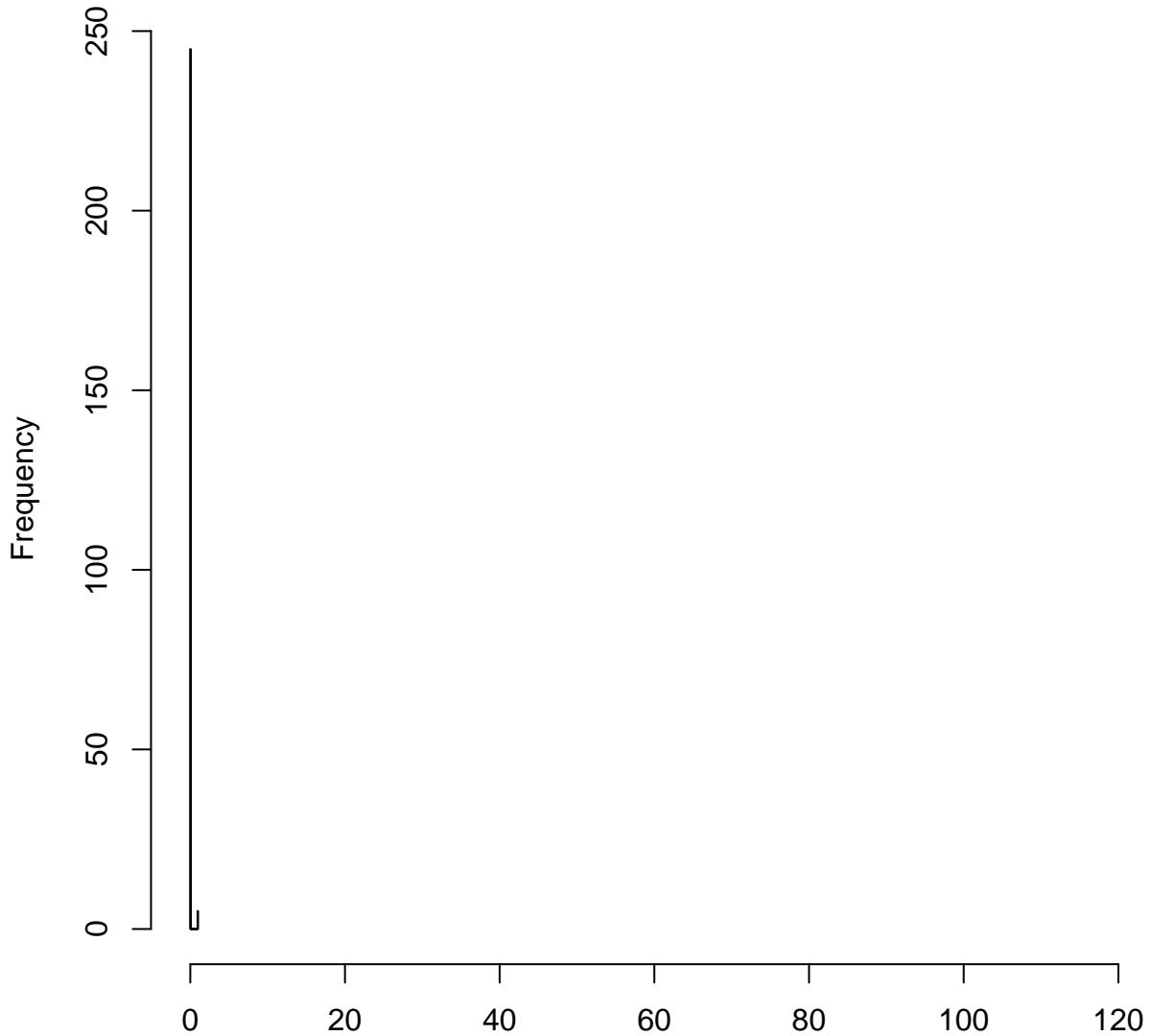


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



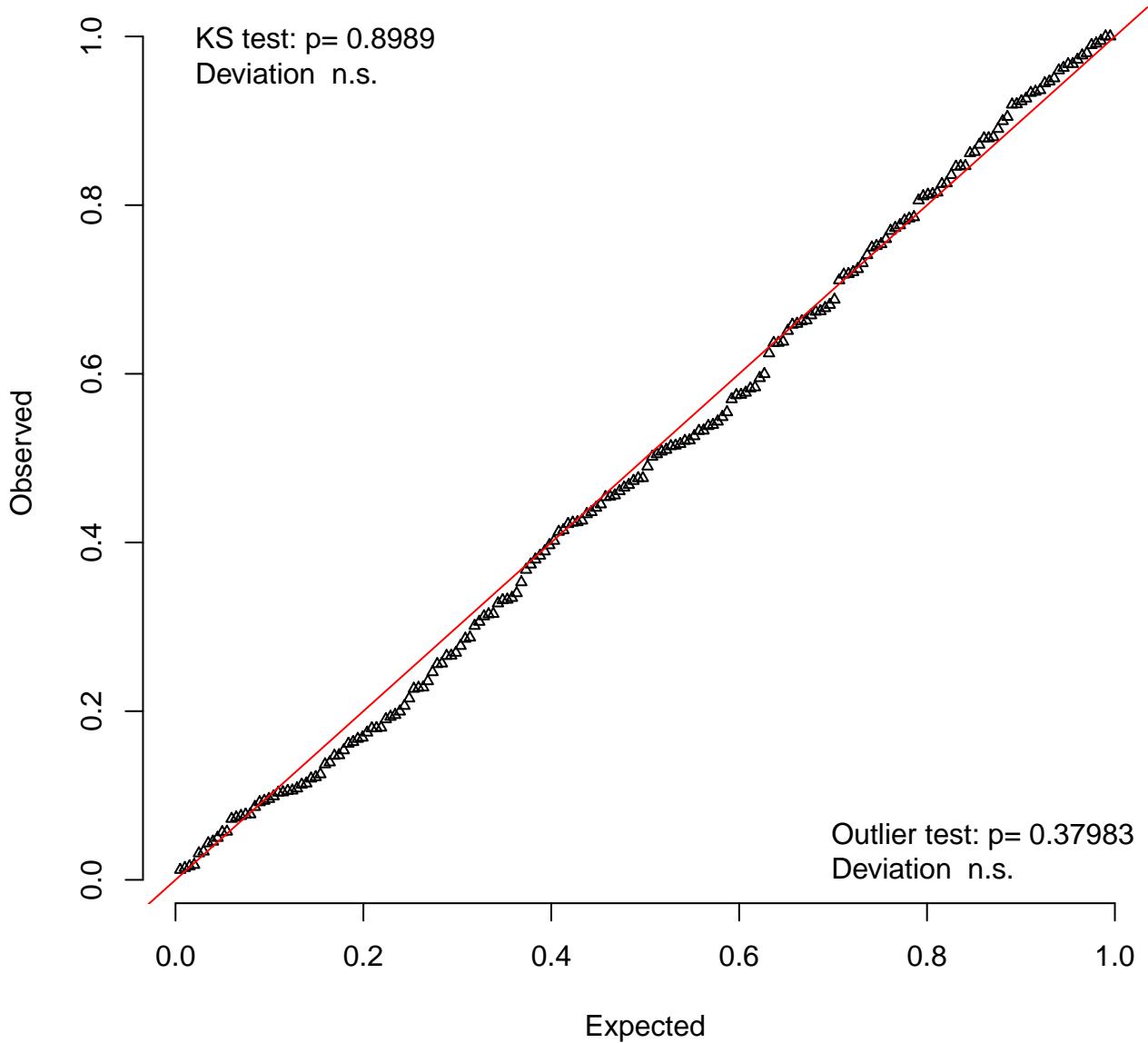
Simulated values, red line = fitted model. p-value (greater) = 0

DHARMA zero-inflation test via comparison to expected zeros with simulation under H0 = fitted model

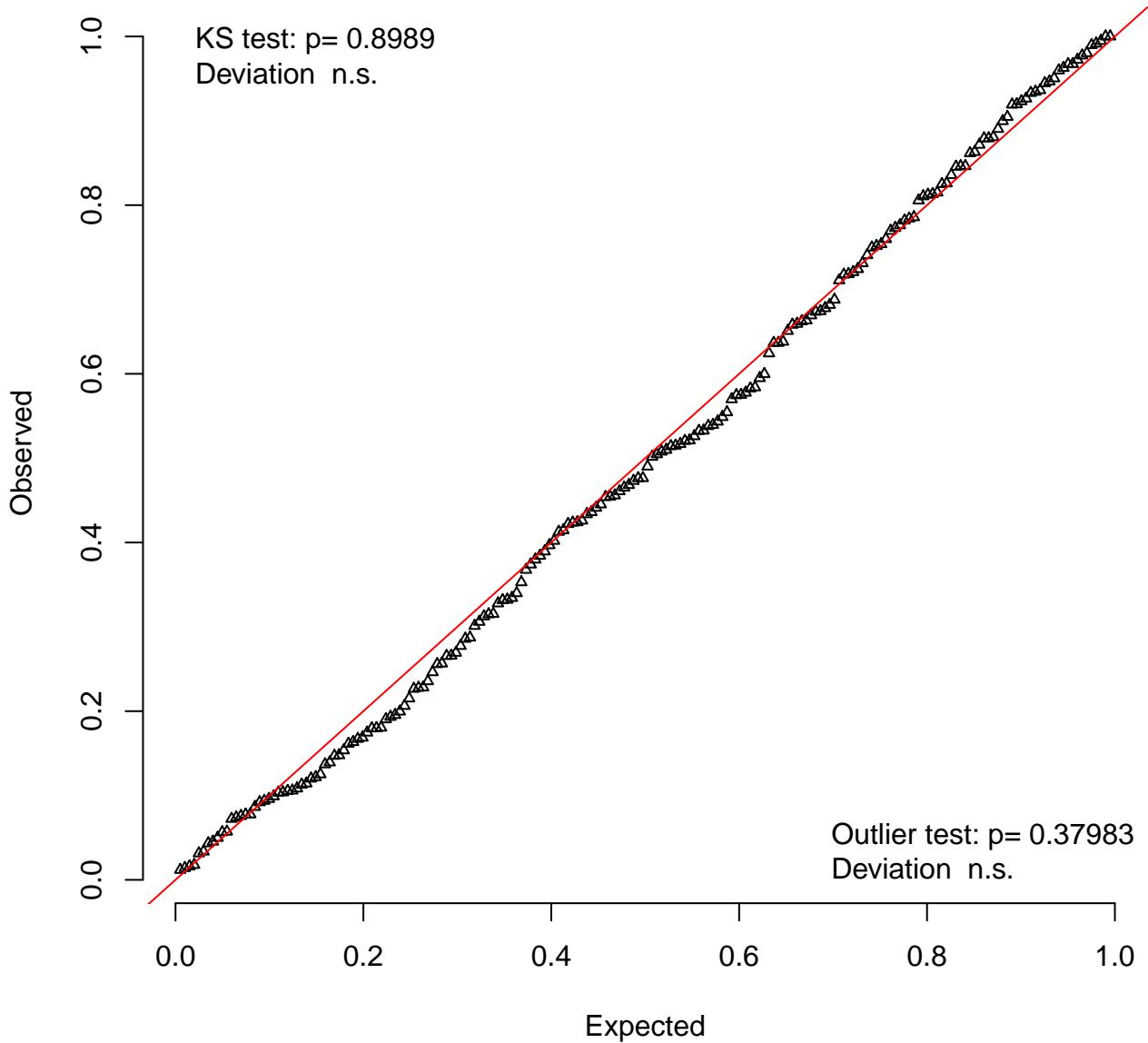


Simulated values, red line = fitted model. p-value (greater) = 0

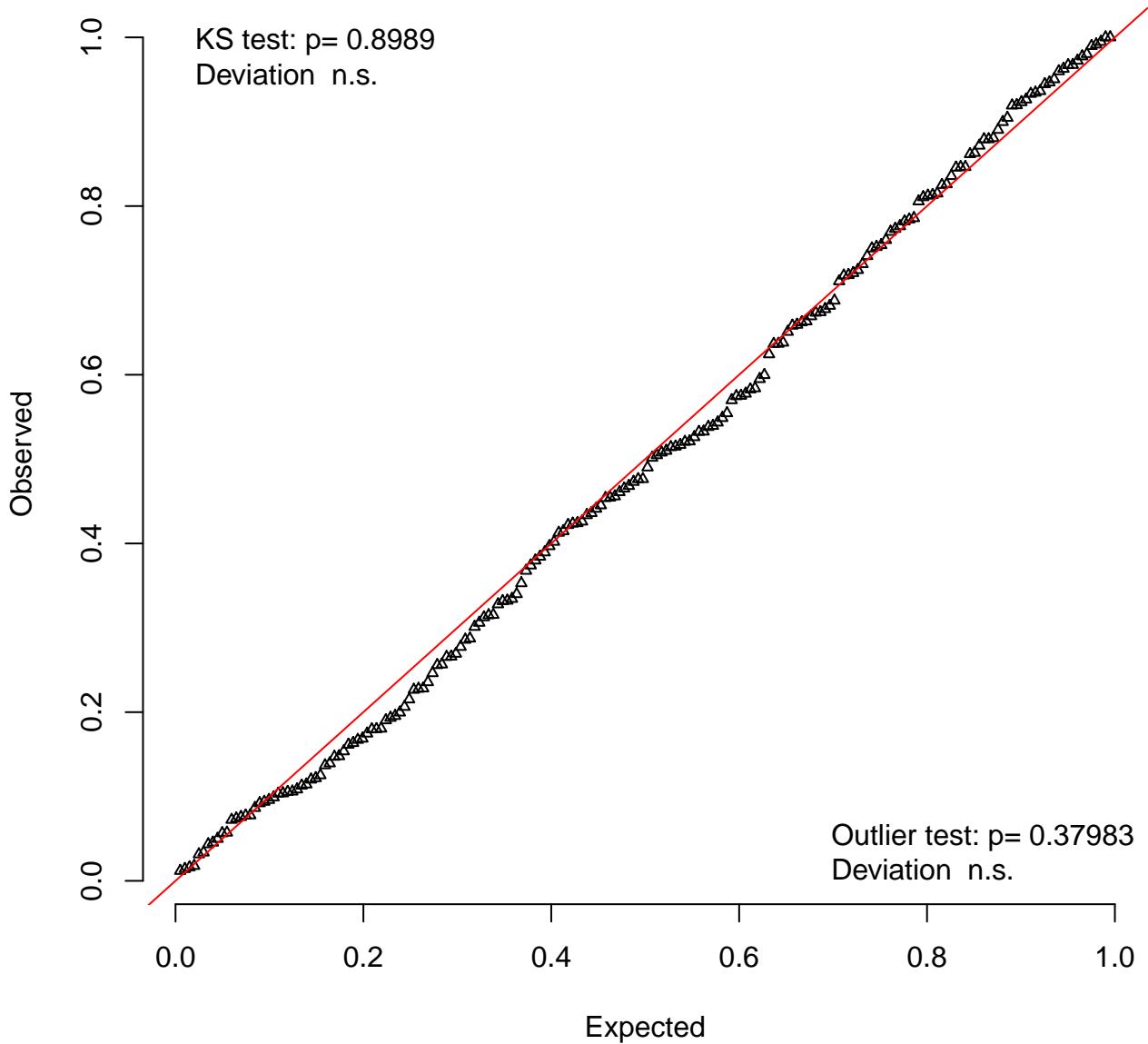
QQ plot residuals



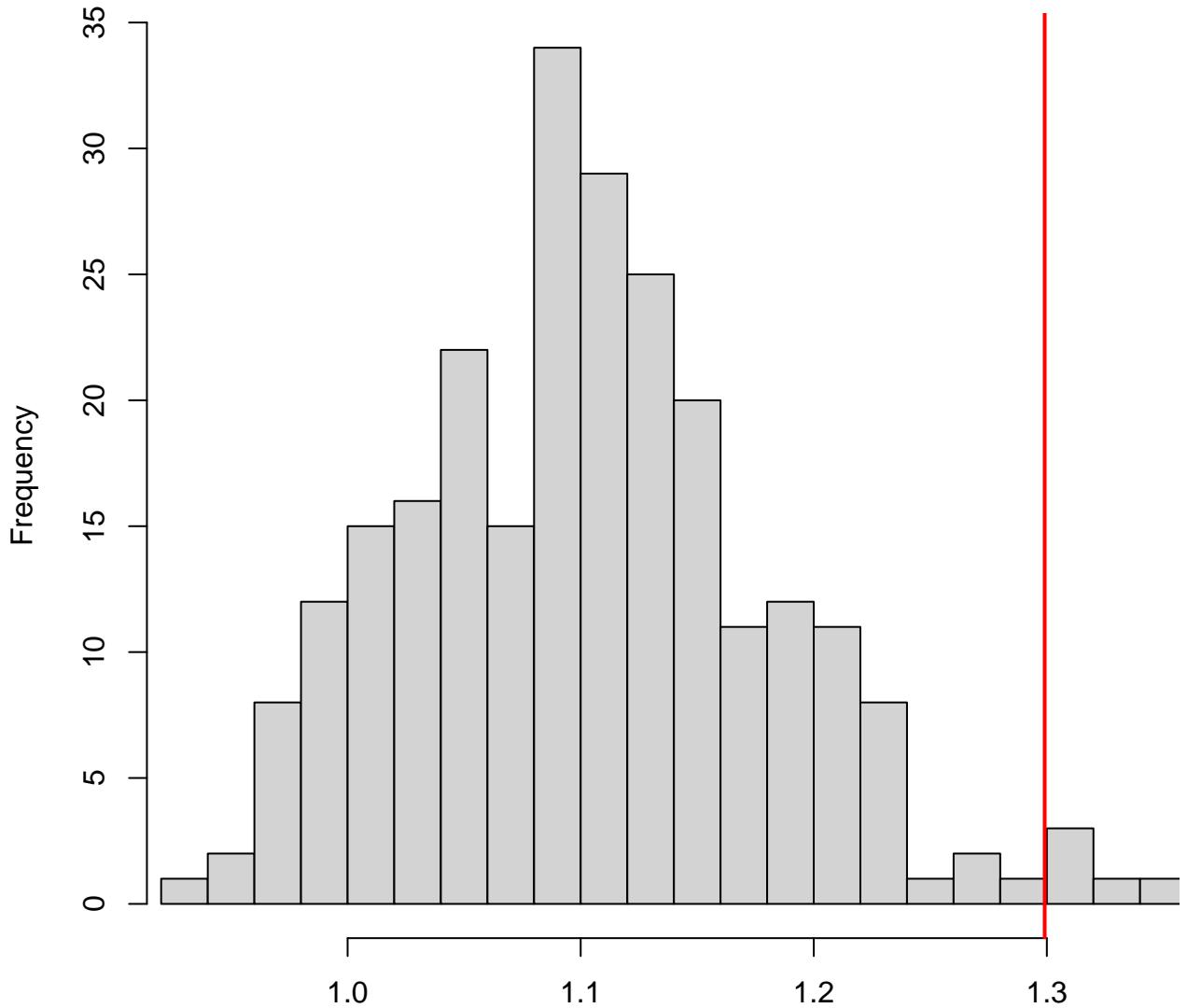
QQ plot residuals



QQ plot residuals

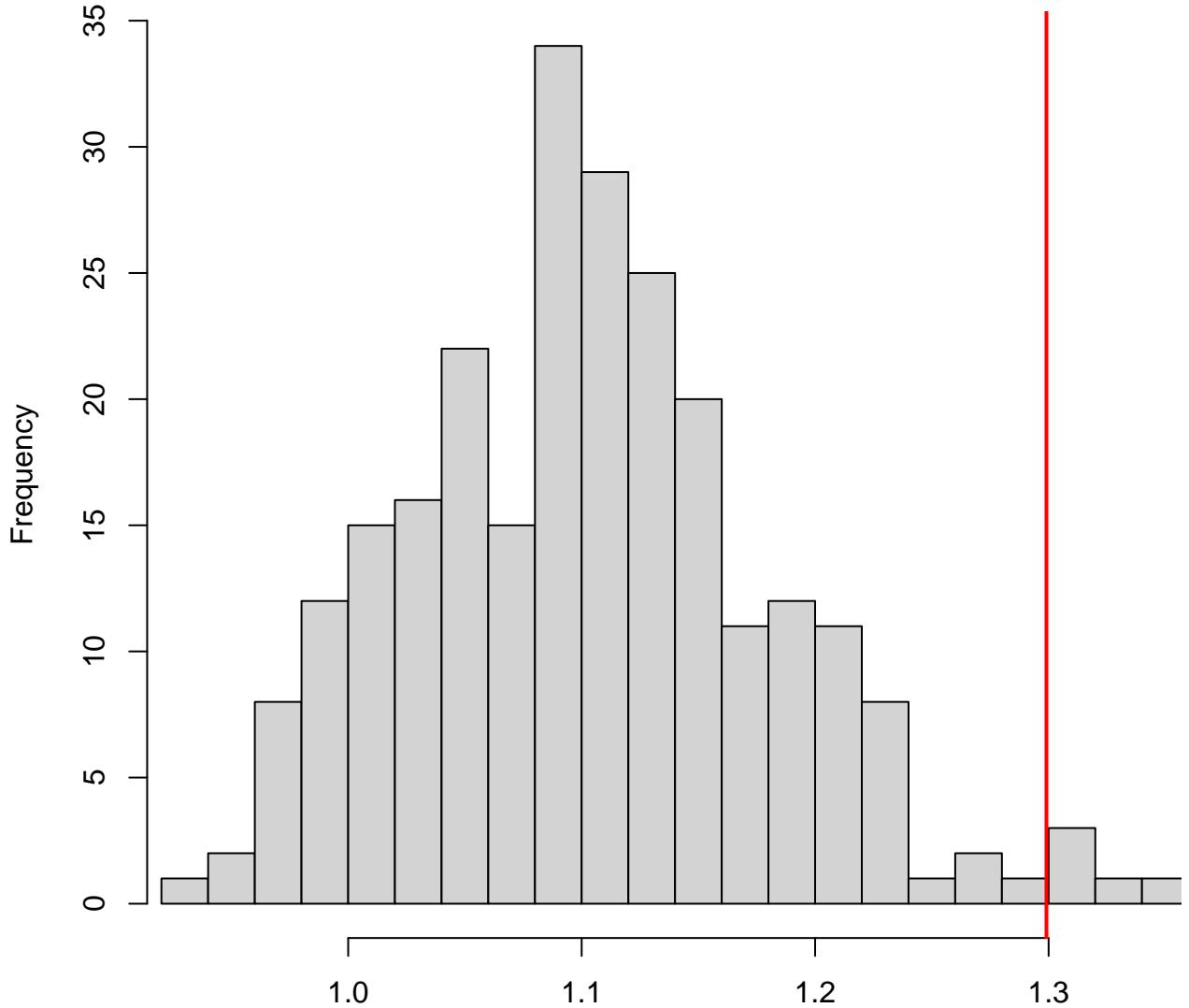


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



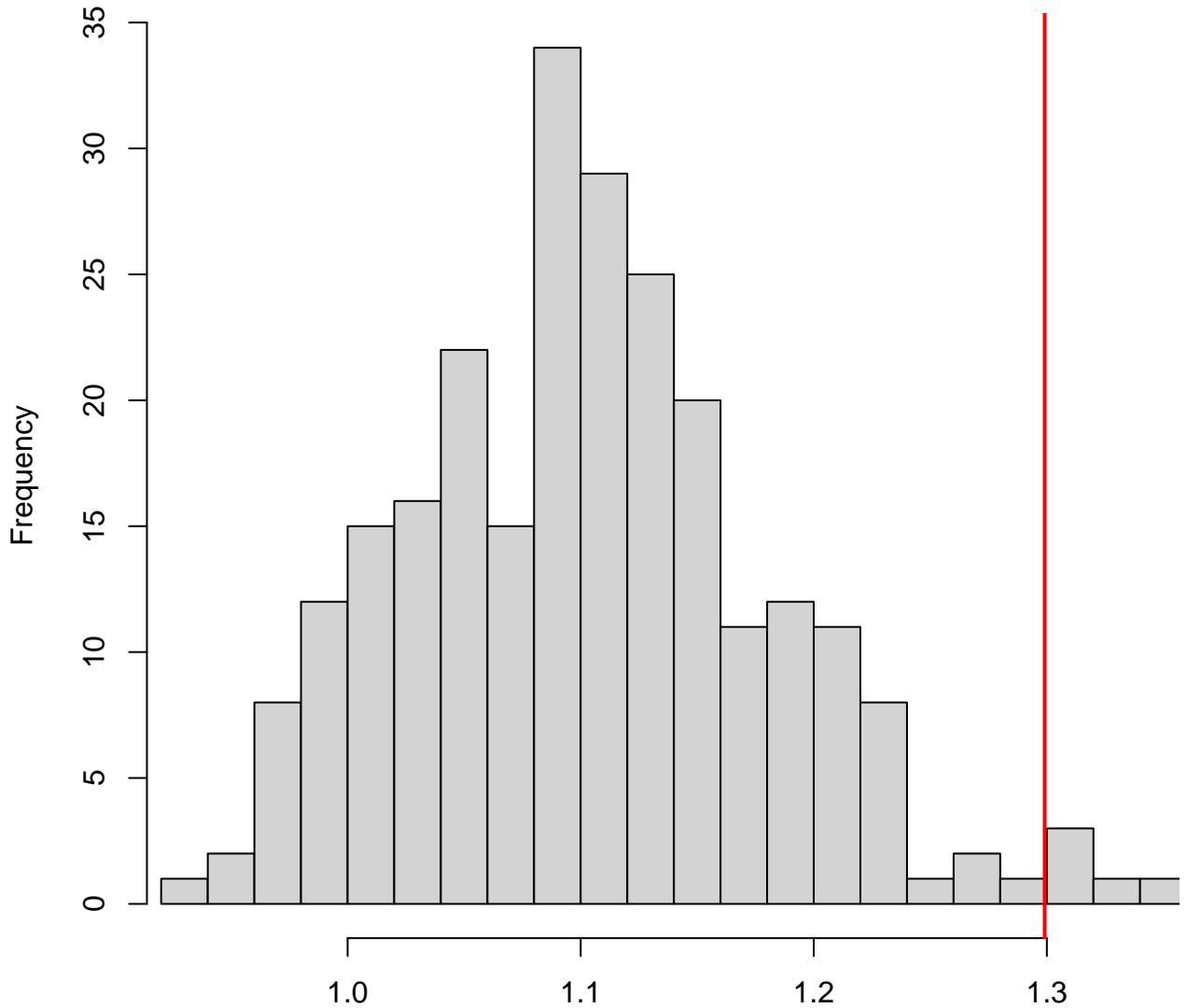
Simulated values, red line = fitted model. p-value (two.sided) = 0.04

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



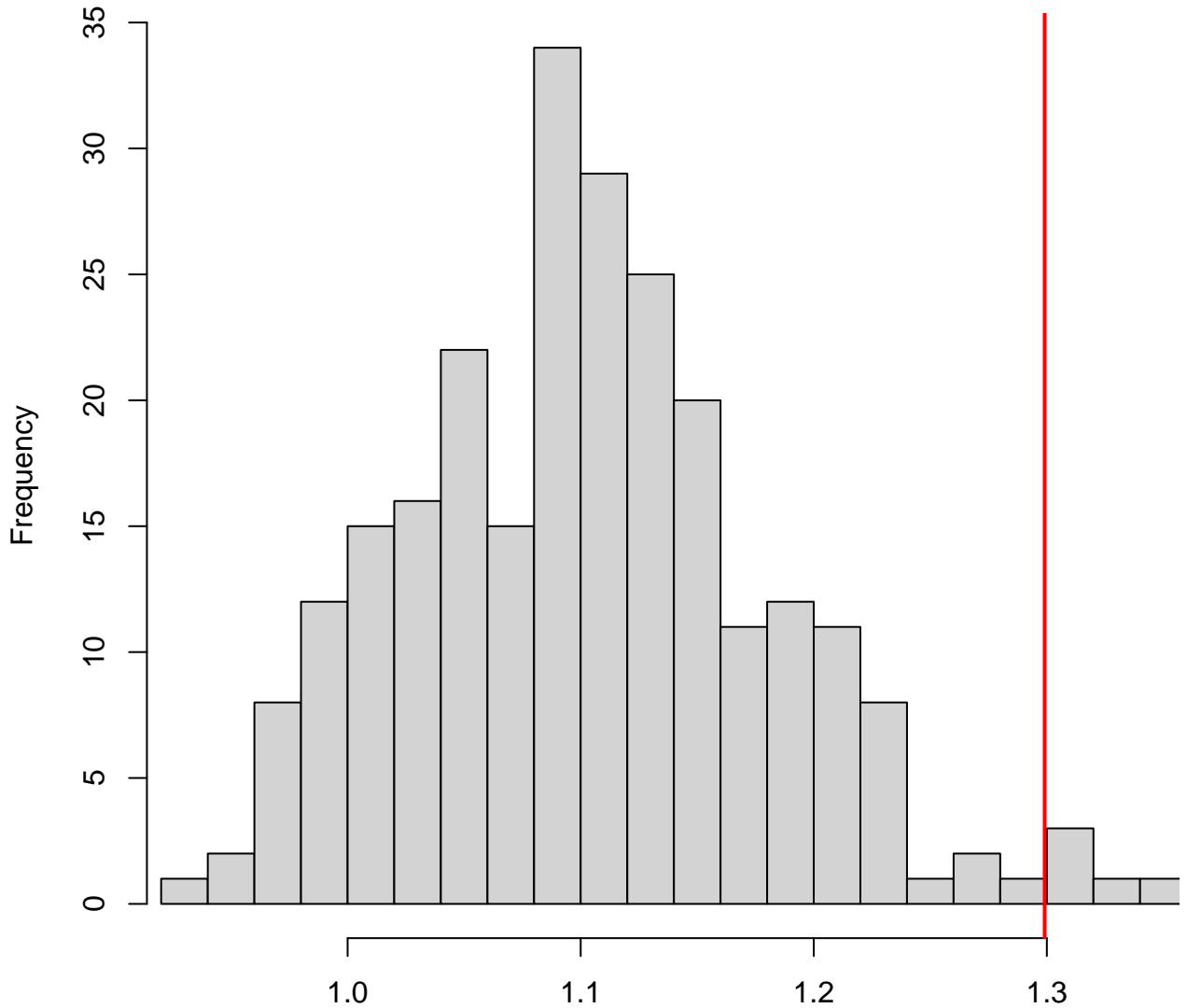
Simulated values, red line = fitted model. p-value (less) = 0.98

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



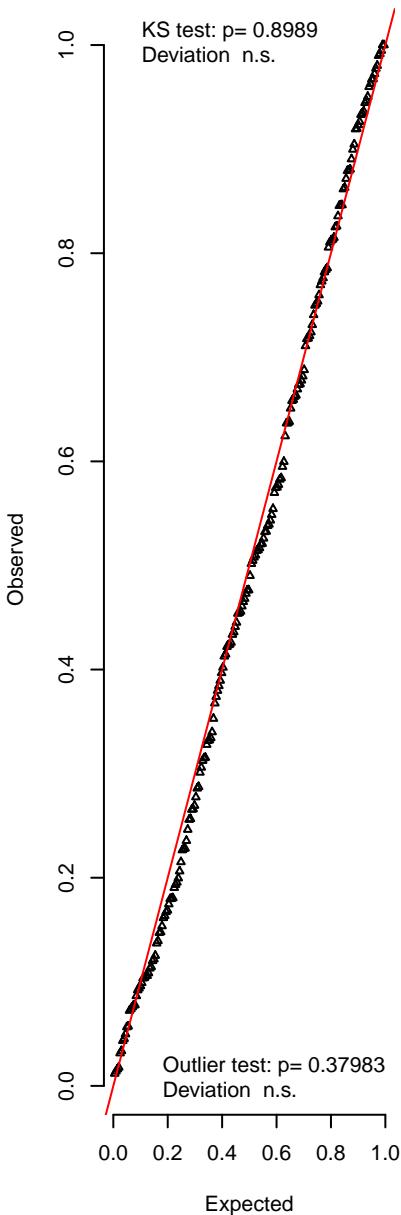
Simulated values, red line = fitted model. p-value (greater) = 0.02

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

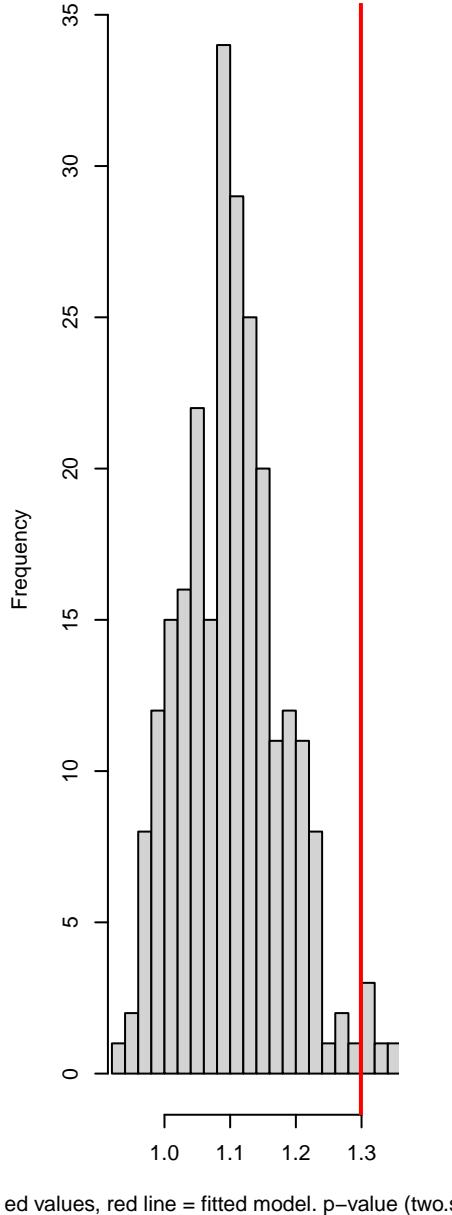


Simulated values, red line = fitted model. p-value (two.sided) = 0.04

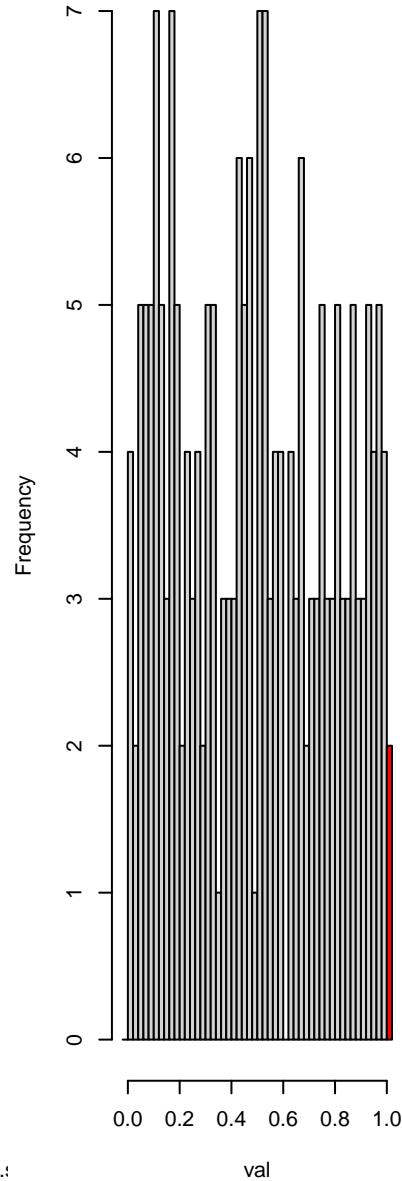
QQ plot residuals



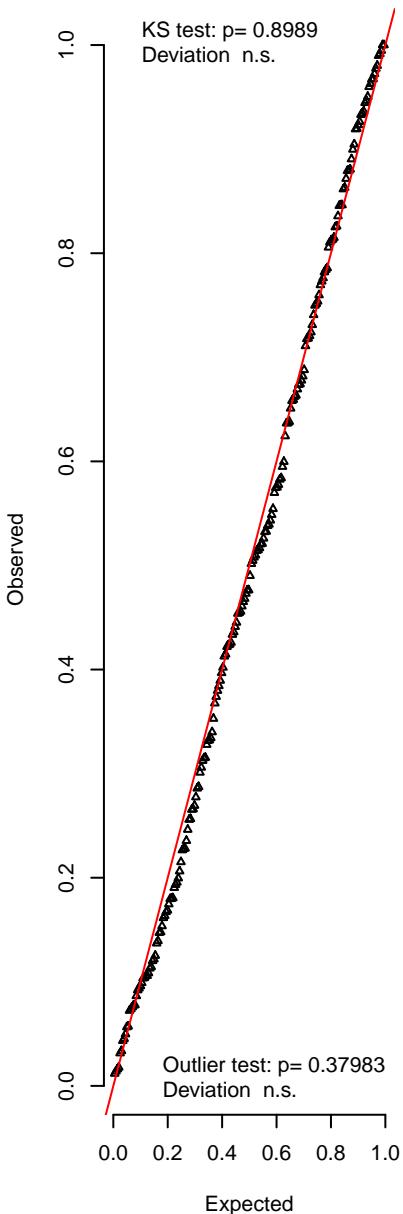
RMA nonparametric dispersion test residuals fitted vs. simulated



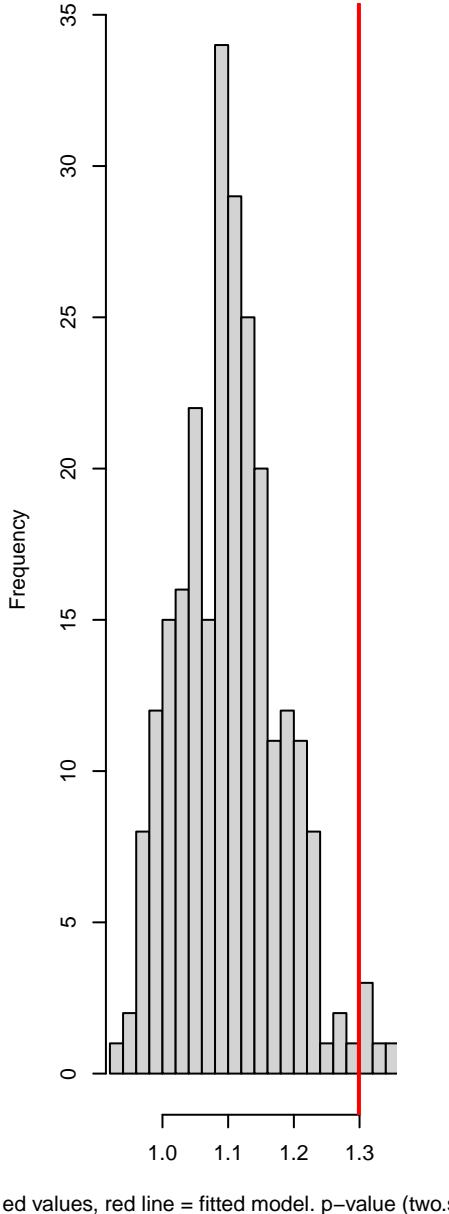
Hist of DHARMA residuals
Outliers are marked red



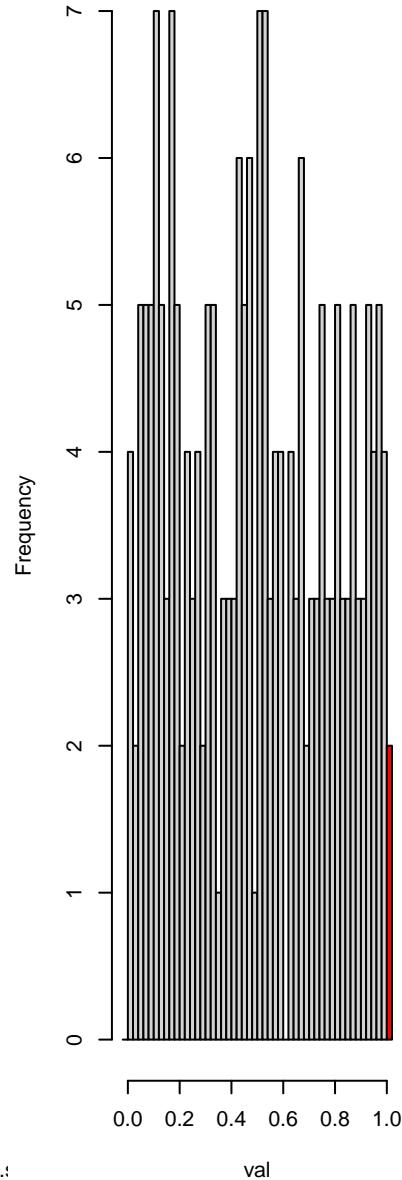
QQ plot residuals



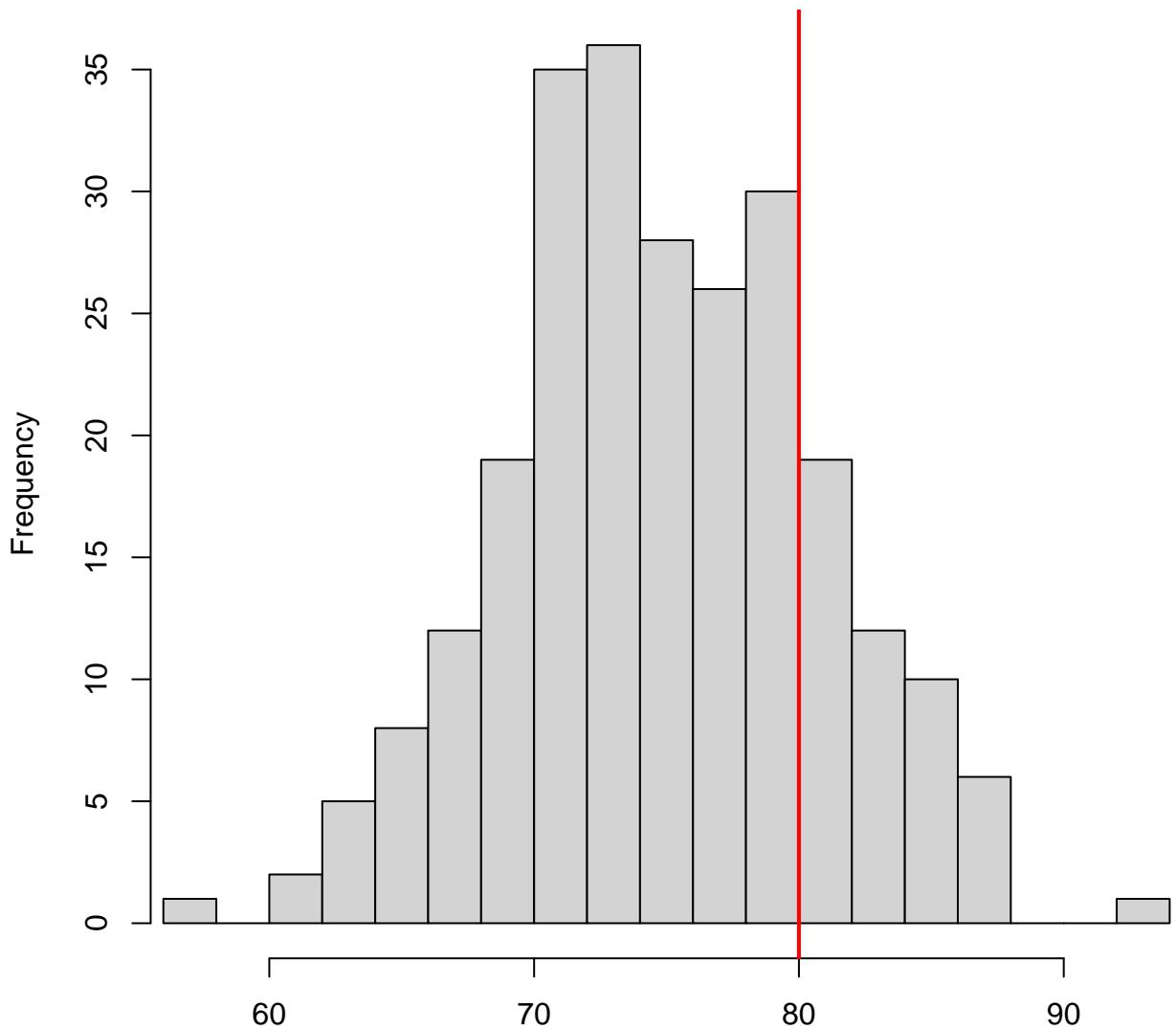
RMA nonparametric dispersion test residuals fitted vs. simulated



Hist of DHARMA residuals
Outliers are marked red

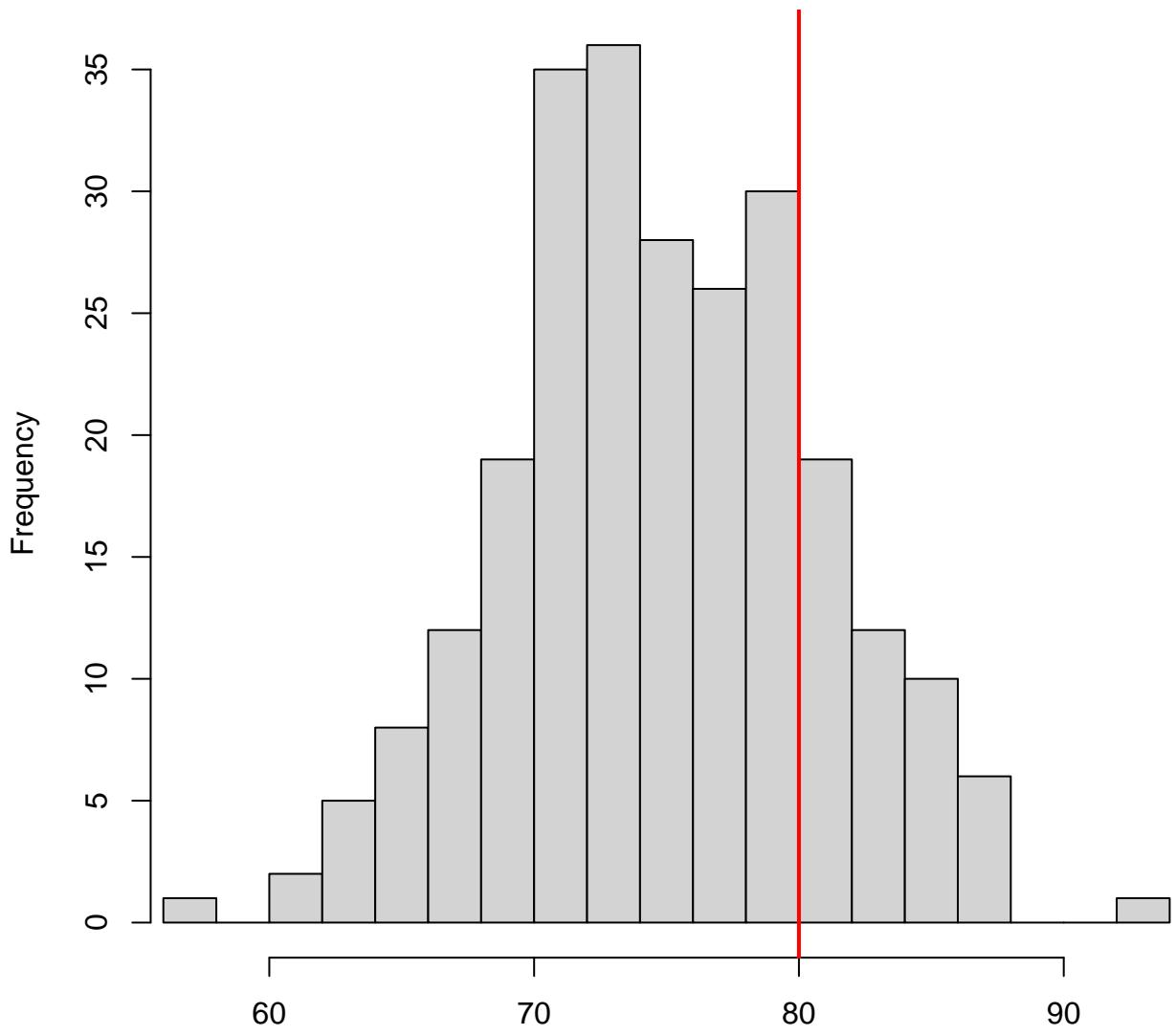


DHARMA zero-inflation test via comparison to expected zeros with simulation under $H_0 =$ fitted model



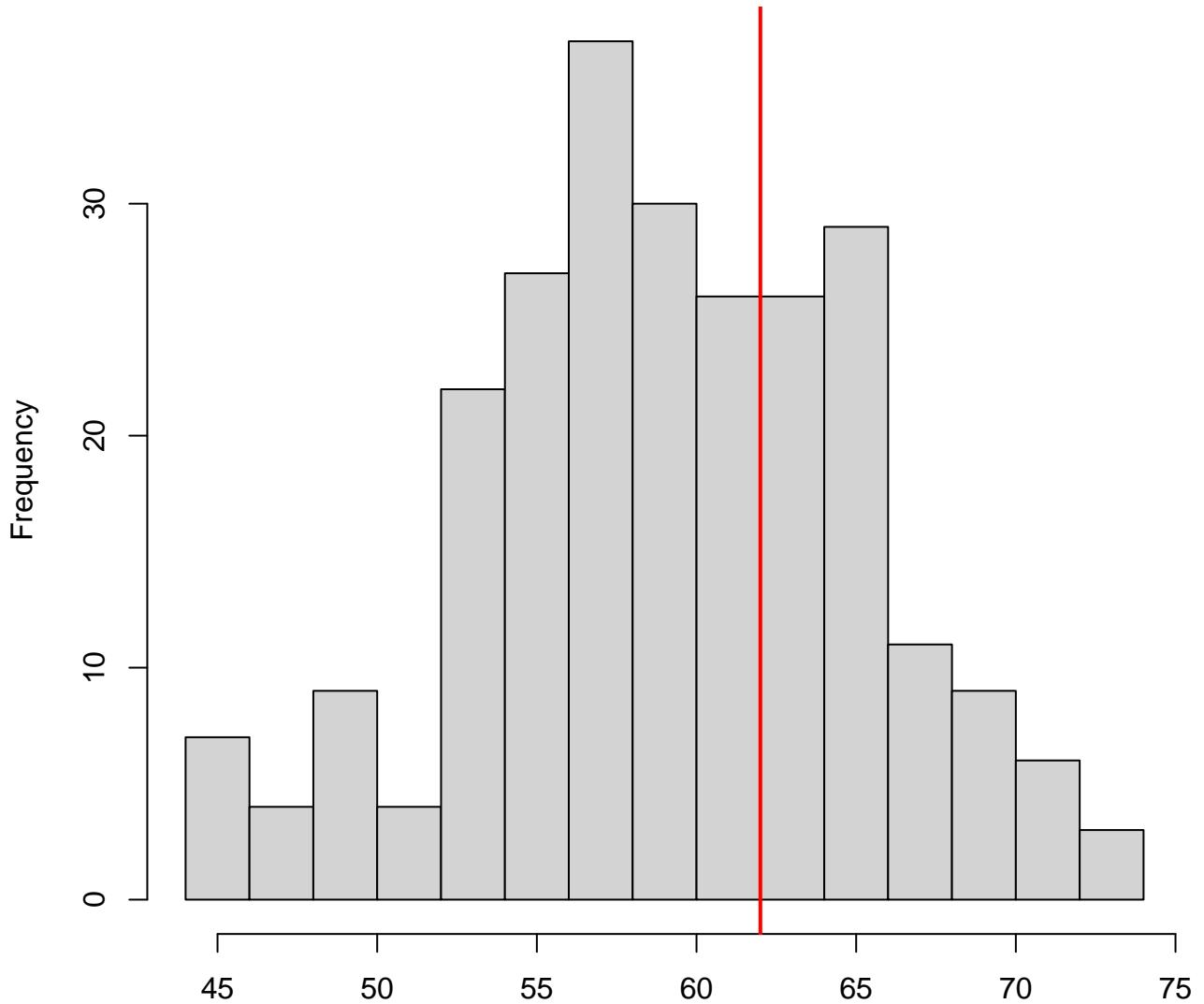
Simulated values, red line = fitted model. p-value (two.sided) = 0.52

DHARMa zero-inflation test via comparison to expected zeros with simulation under H0 = fitted model



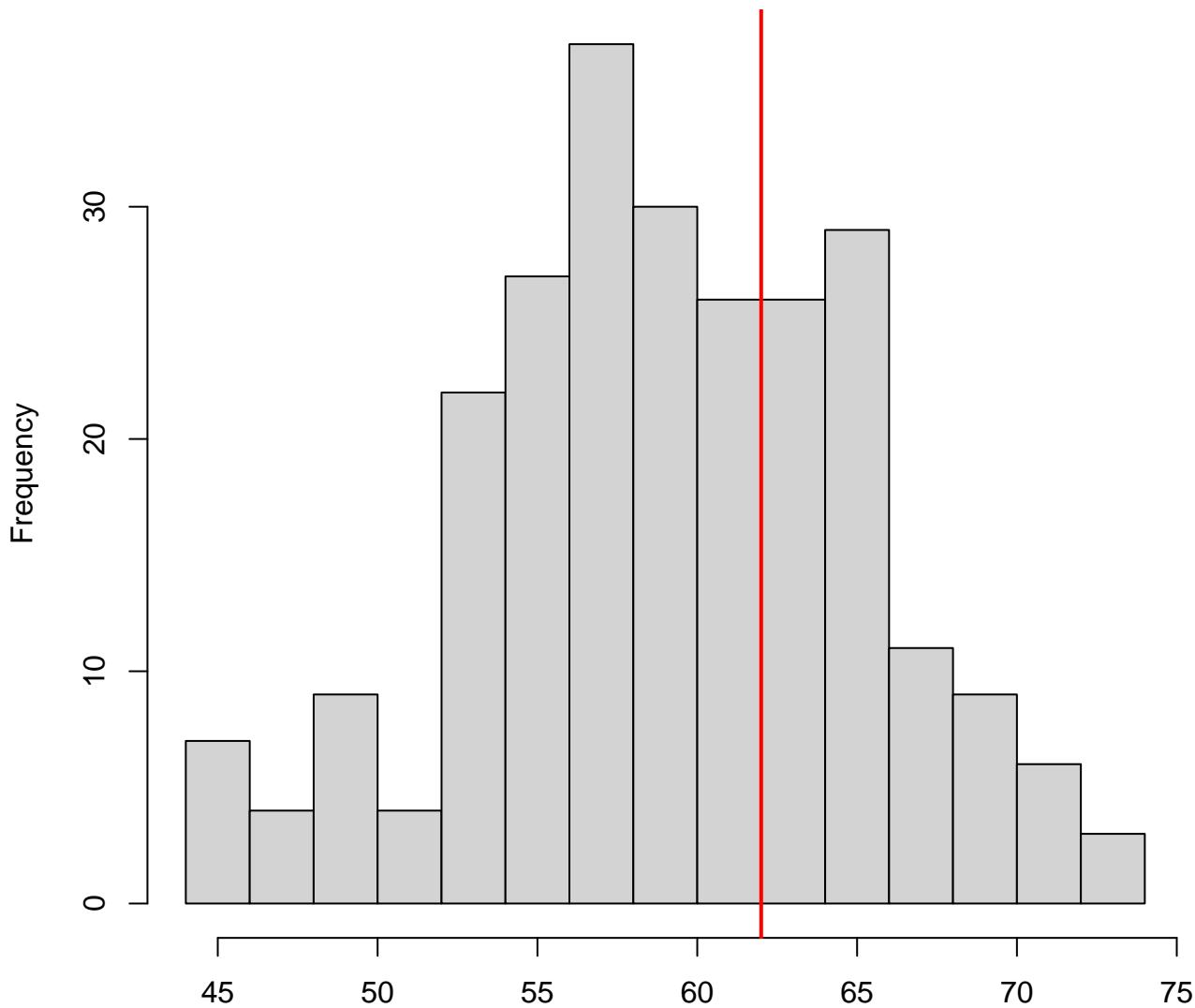
Simulated values, red line = fitted model. p-value (less) = 0.808

DHARMA generic simulation test



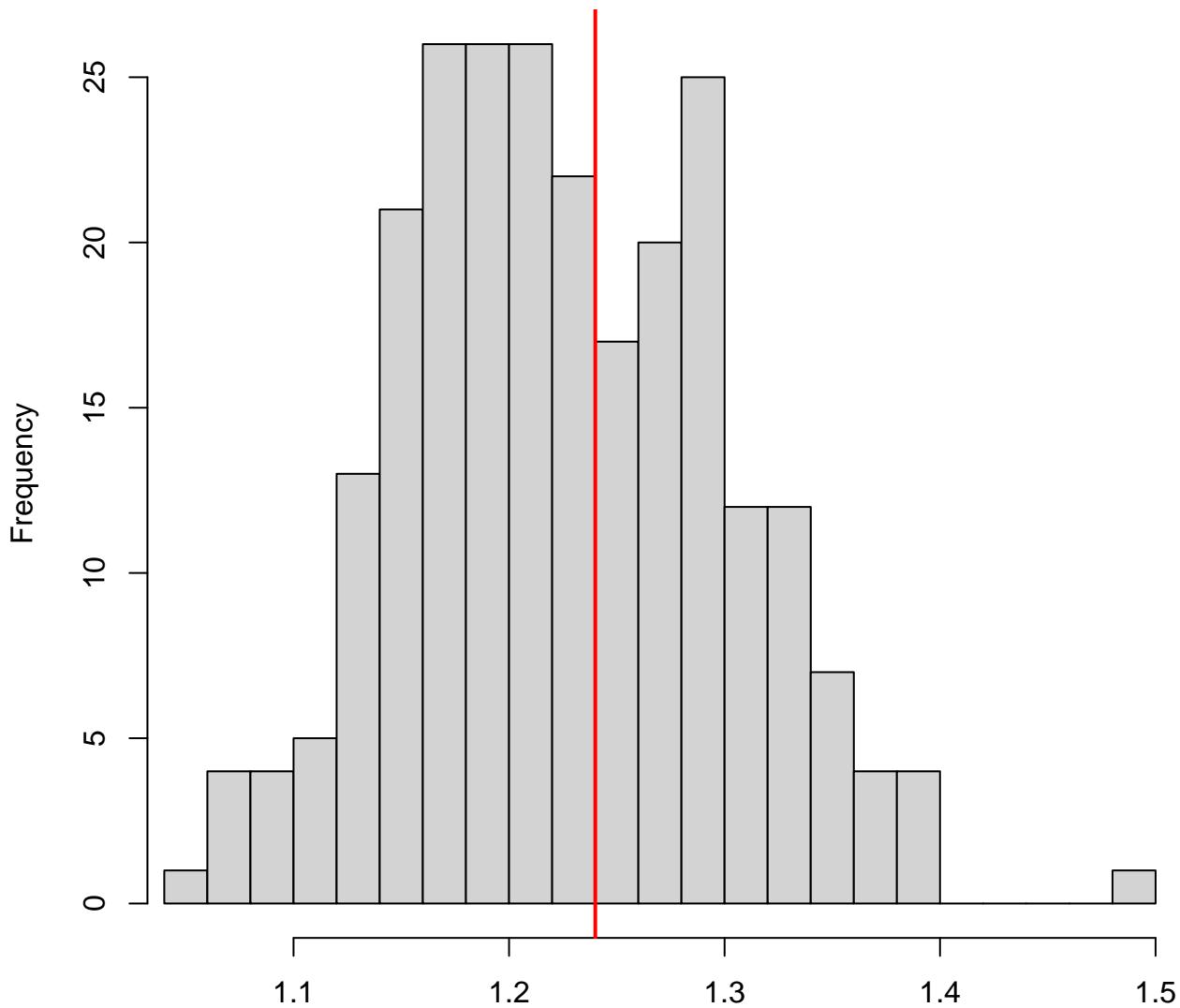
Simulated values, red line = fitted model. p-value (two.sided) = 0.768

DHARMA generic simulation test



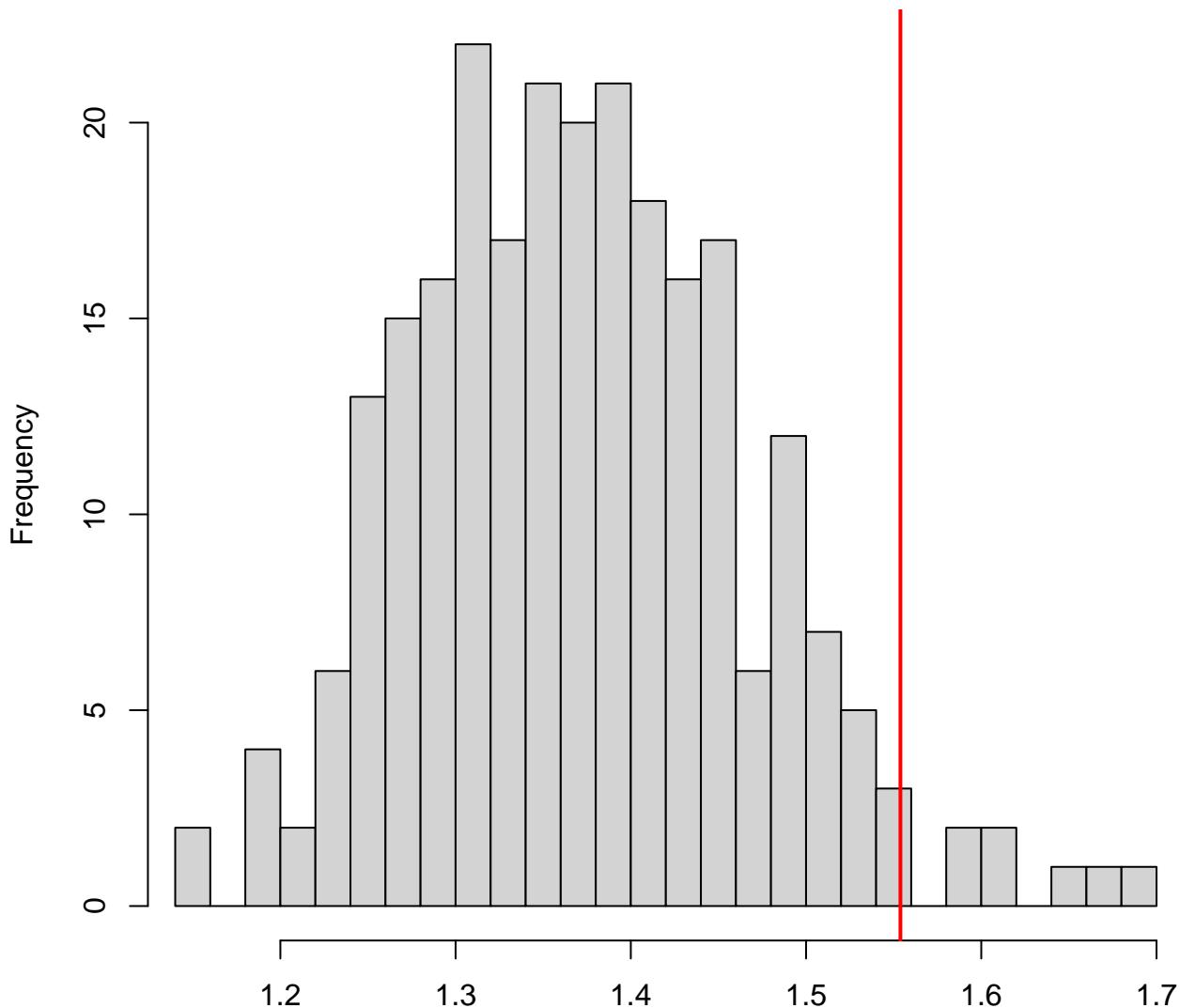
Simulated values, red line = fitted model. p-value (less) = 0.664

DHARMA generic simulation test



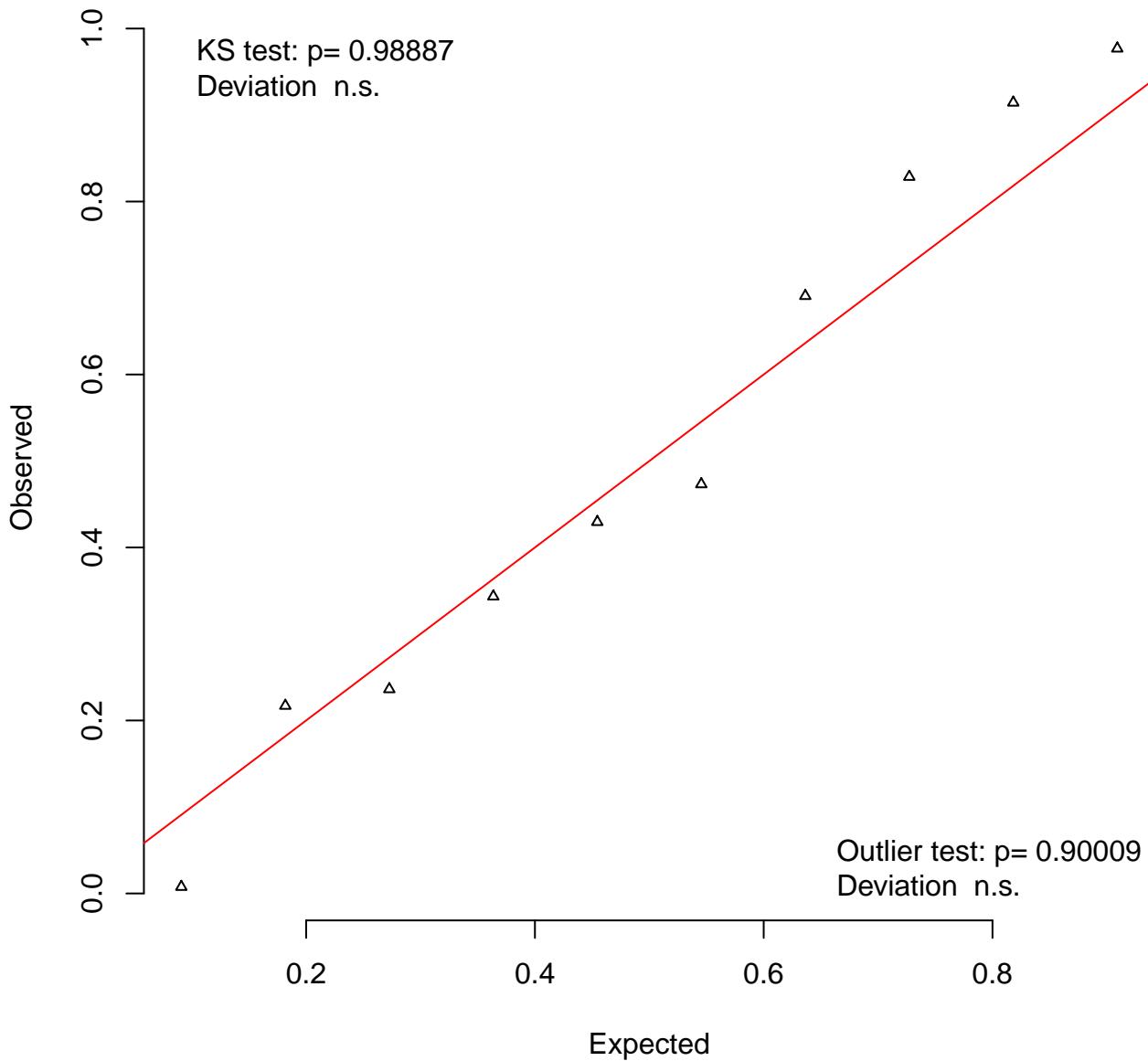
Simulated values, red line = fitted model. p-value (two.sided) = 0.848

DHARMA generic simulation test

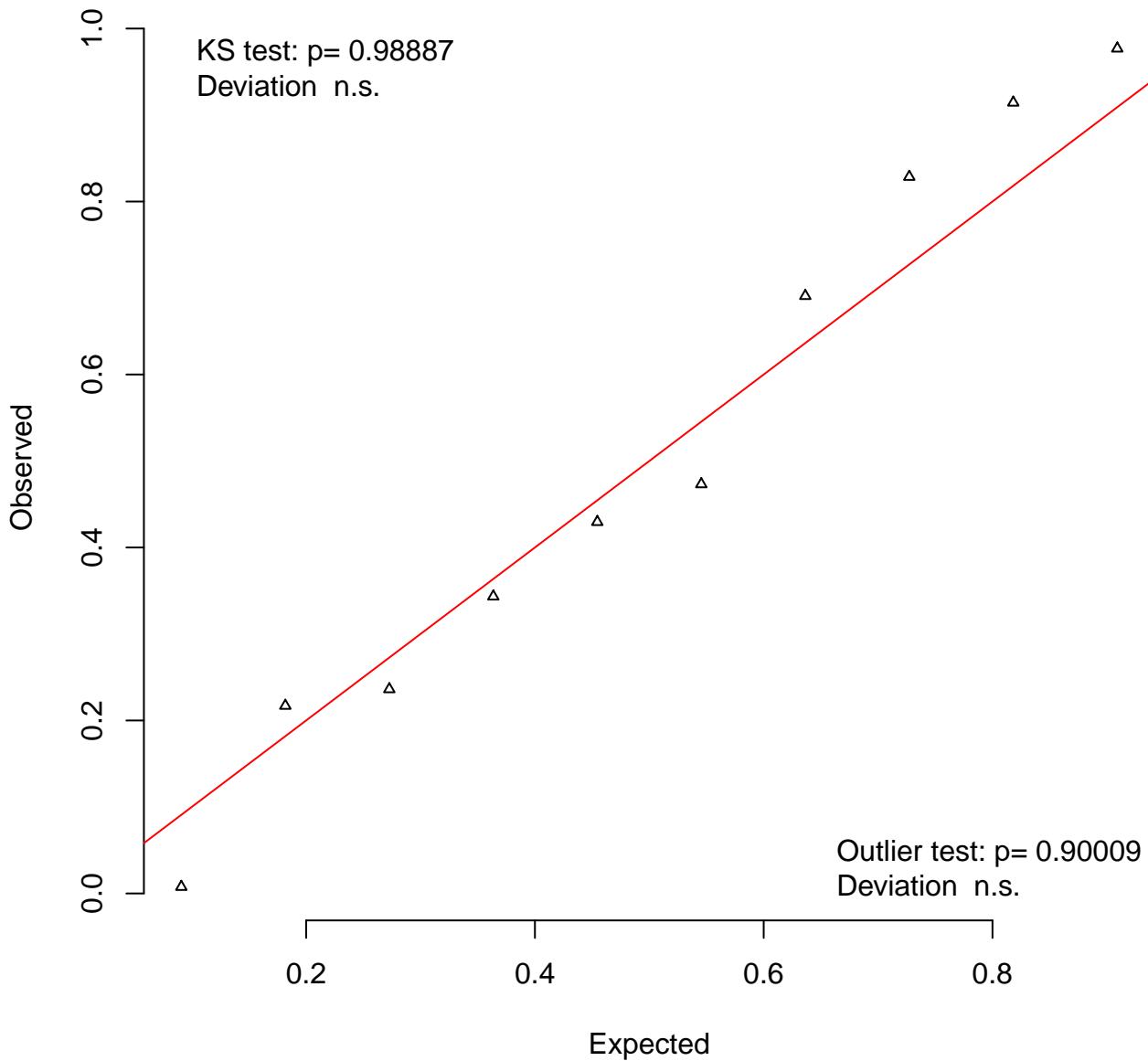


Simulated values, red line = fitted model. p-value (two.sided) = 0.056

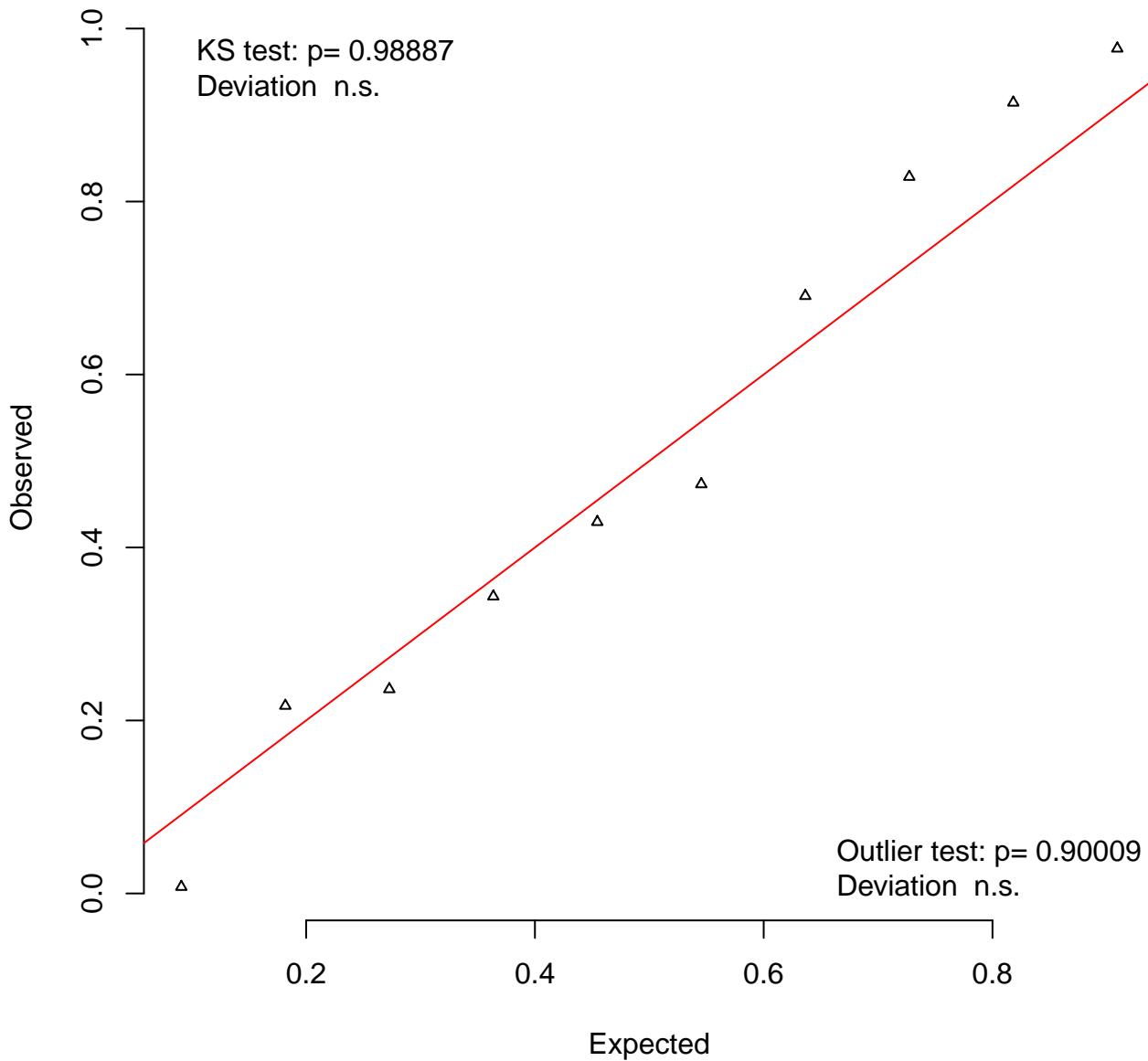
QQ plot residuals



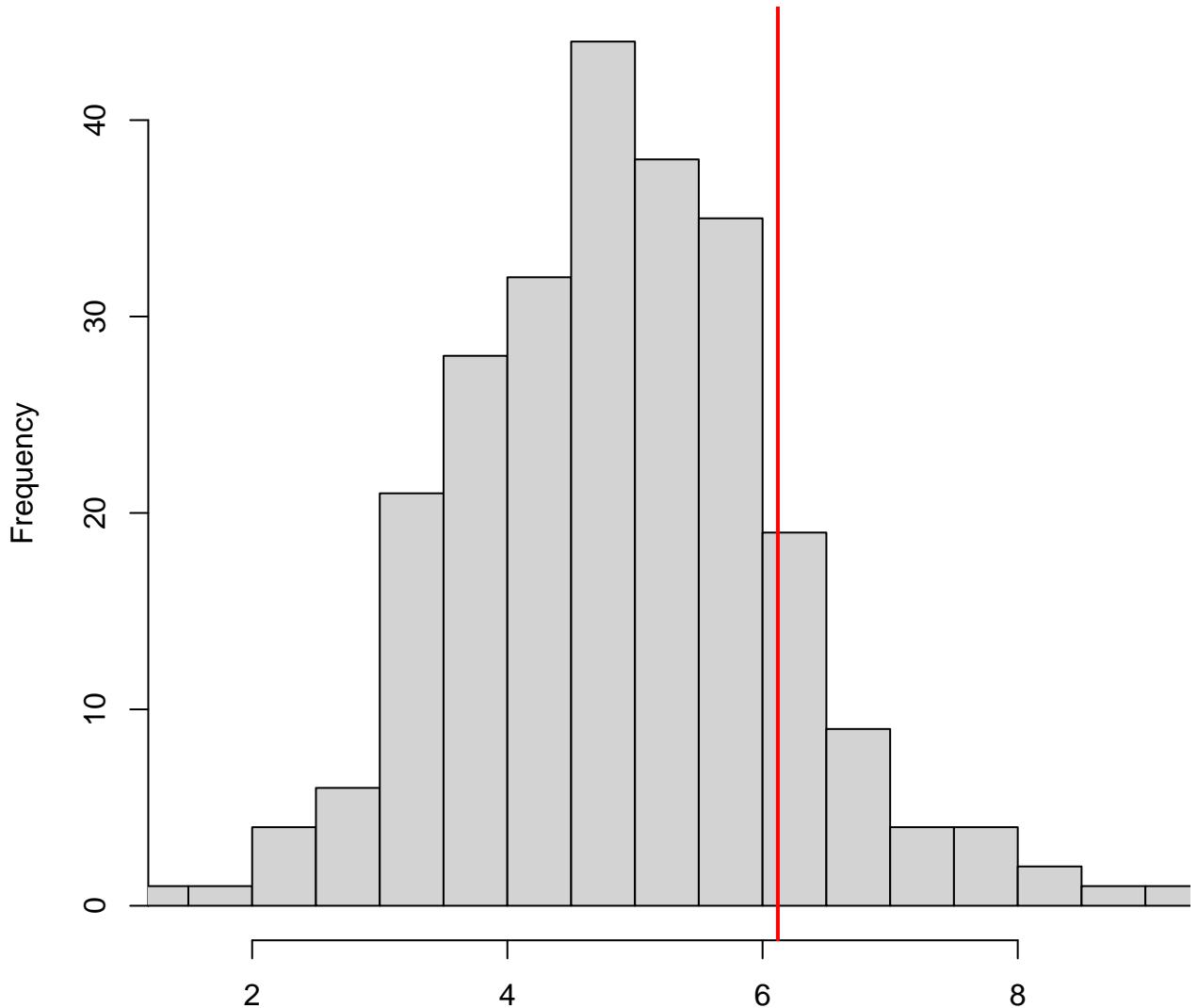
QQ plot residuals



QQ plot residuals

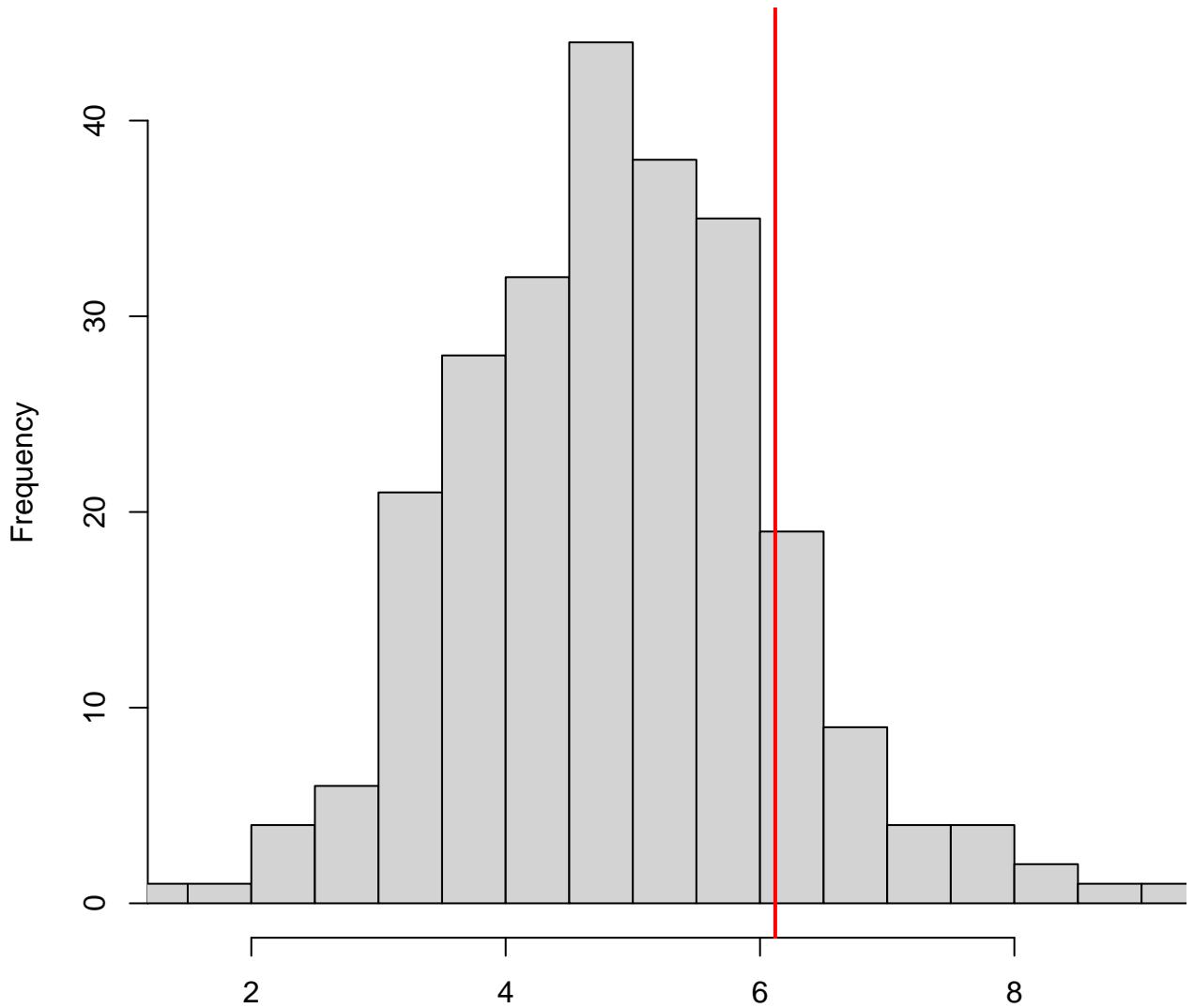


DHARMA nonparametric dispersion test via sd of residuals fitted vs. simulated



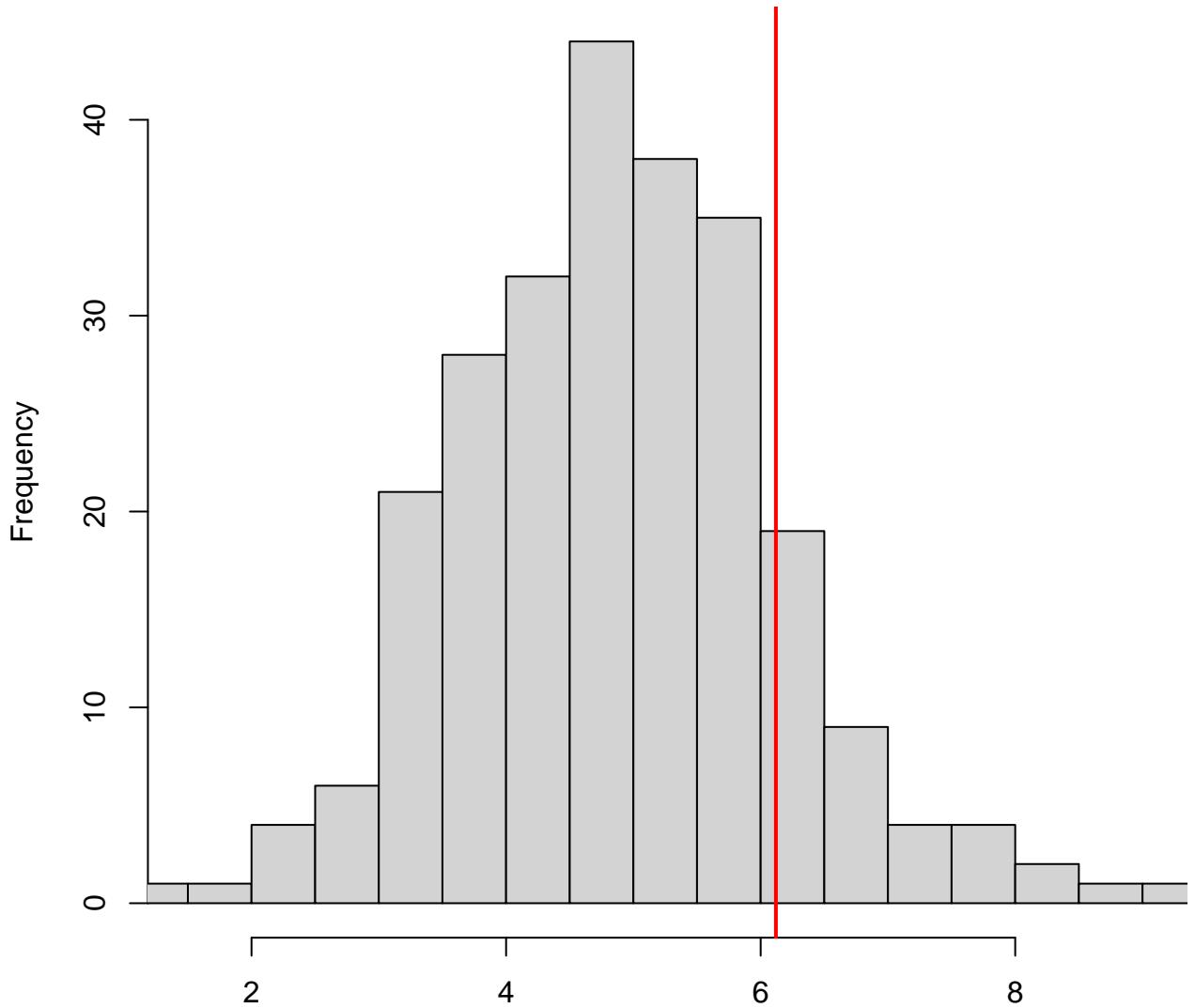
Simulated values, red line = fitted model. p-value (two.sided) = 0.312

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



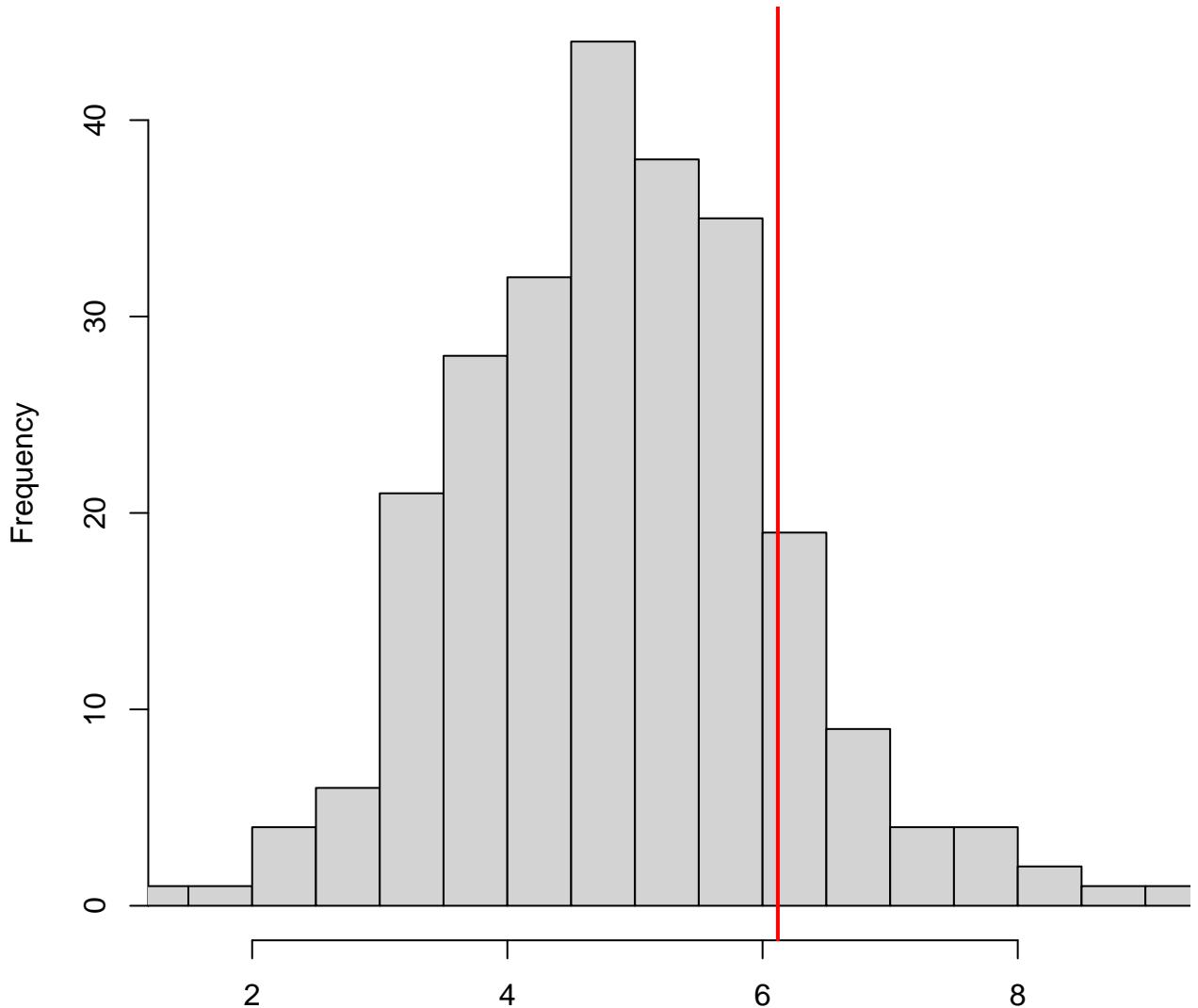
Simulated values, red line = fitted model. p-value (less) = 0.844

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



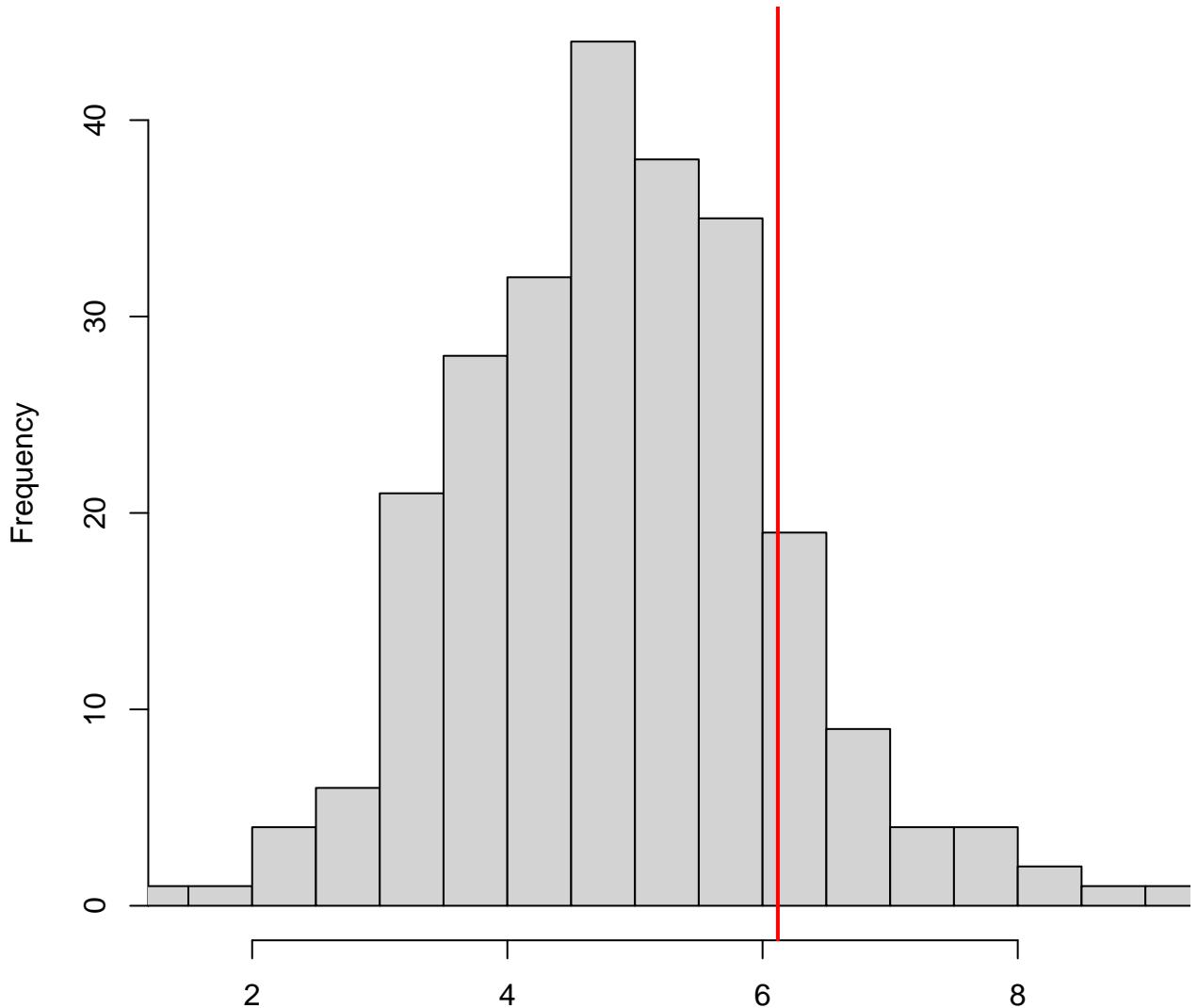
Simulated values, red line = fitted model. p-value (greater) = 0.156

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



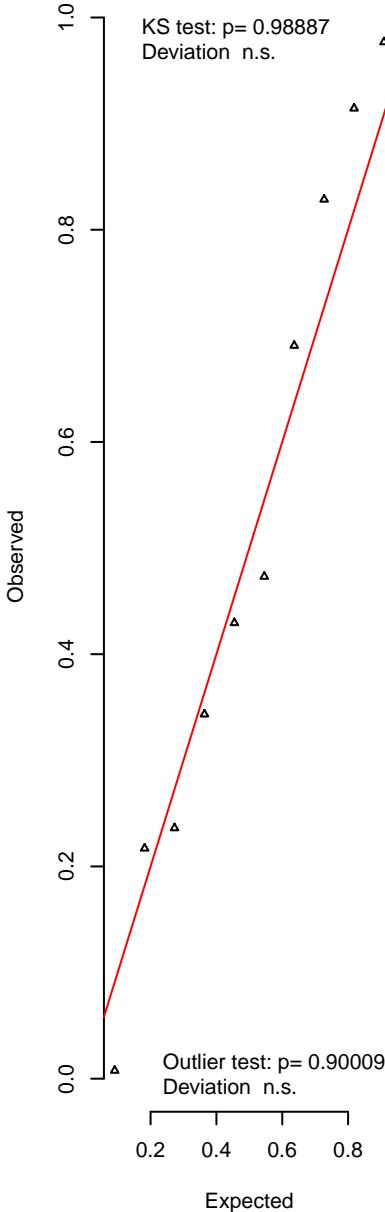
Simulated values, red line = fitted model. p-value (two.sided) = 0.312

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

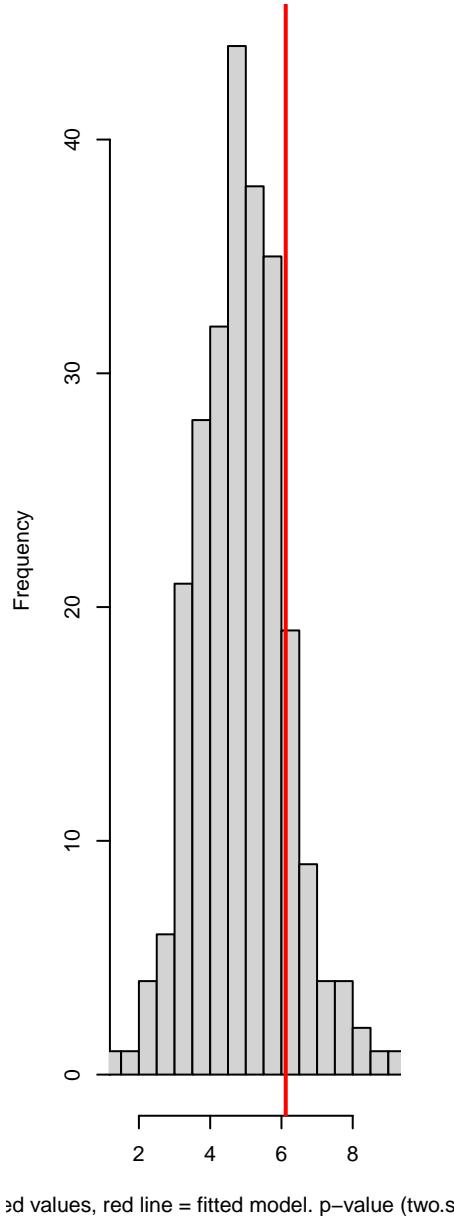


Simulated values, red line = fitted model. p-value (two.sided) = 0.312

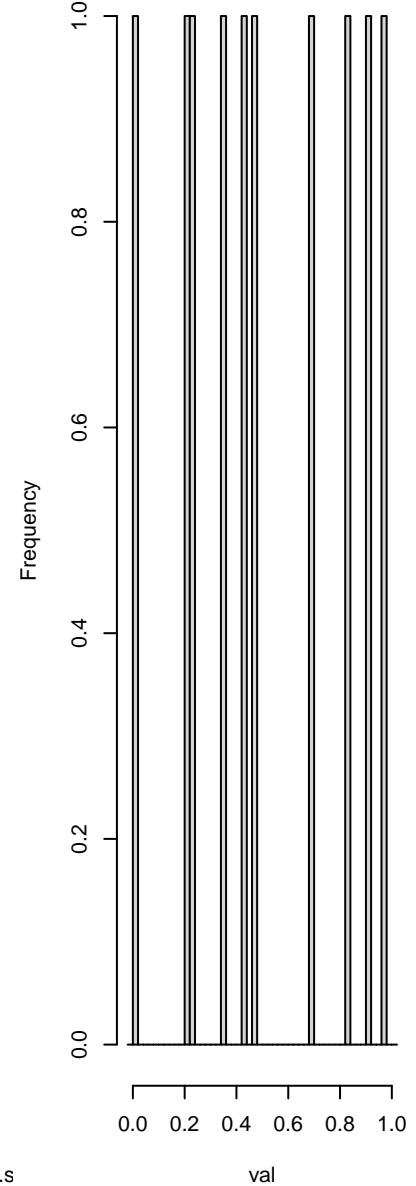
QQ plot residuals



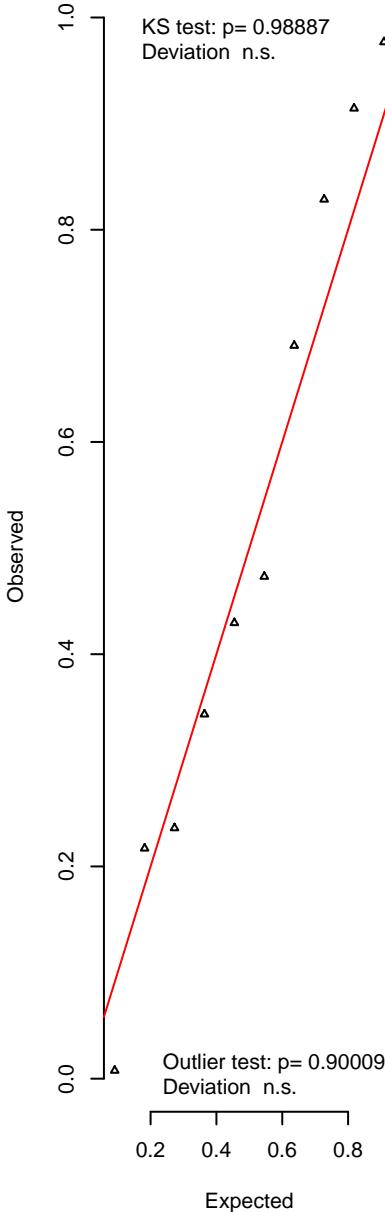
RMA nonparametric dispersion test residuals fitted vs. simulated



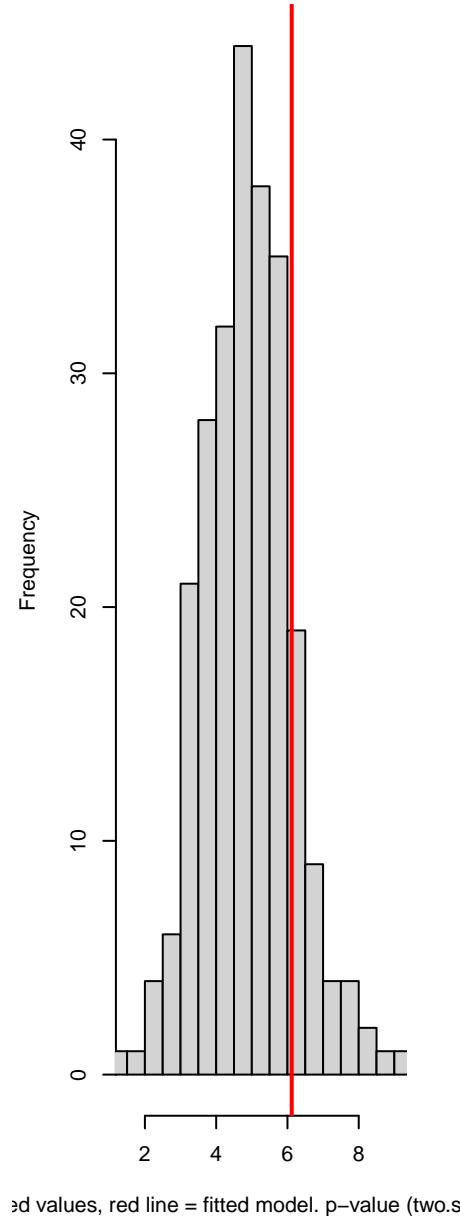
Hist of DHARMA residuals
Outliers are marked red



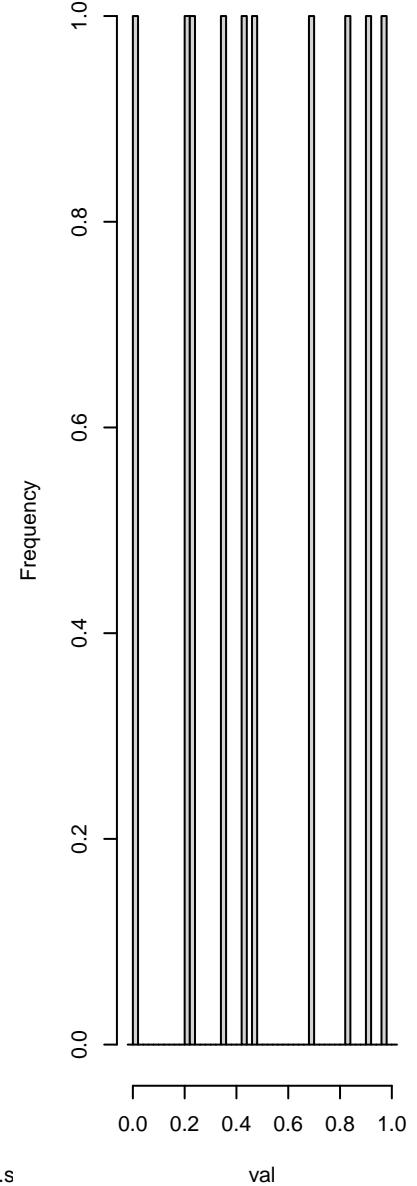
QQ plot residuals



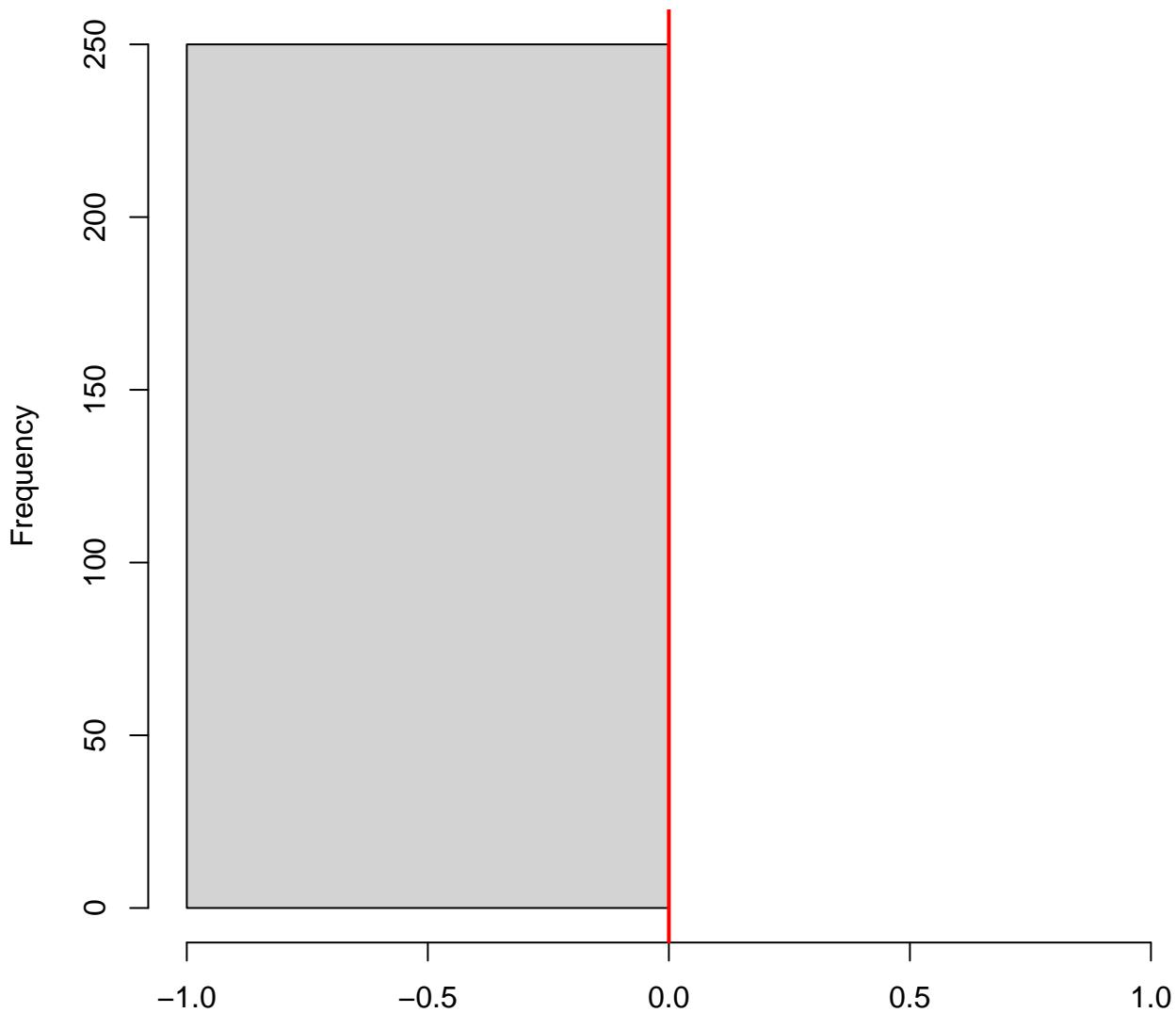
RMA nonparametric dispersion test residuals fitted vs. simulated



Hist of DHARMA residuals
Outliers are marked red

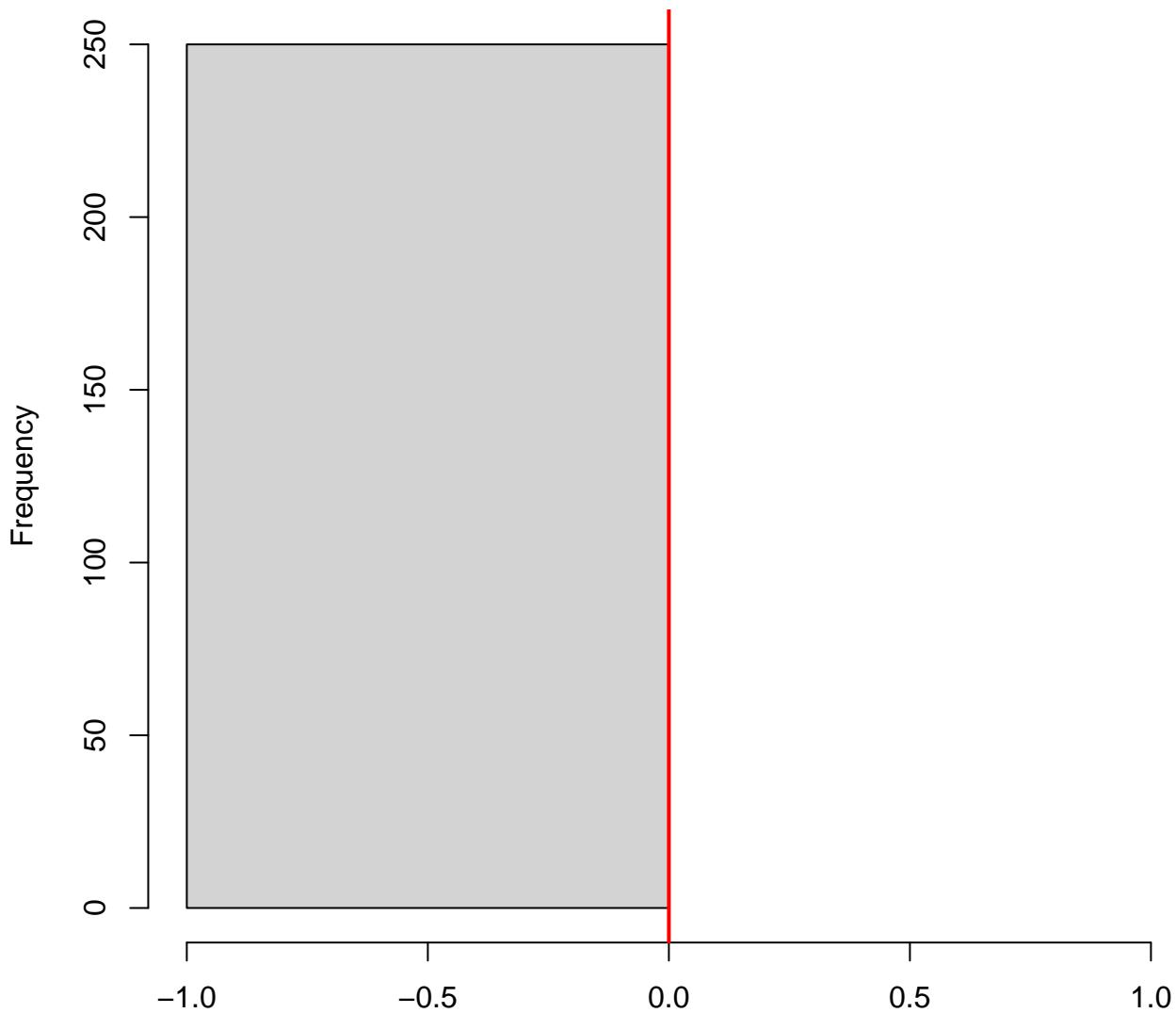


**DHARMA zero-inflation test via comparison to
expected zeros with simulation under H0 = fitted
model**



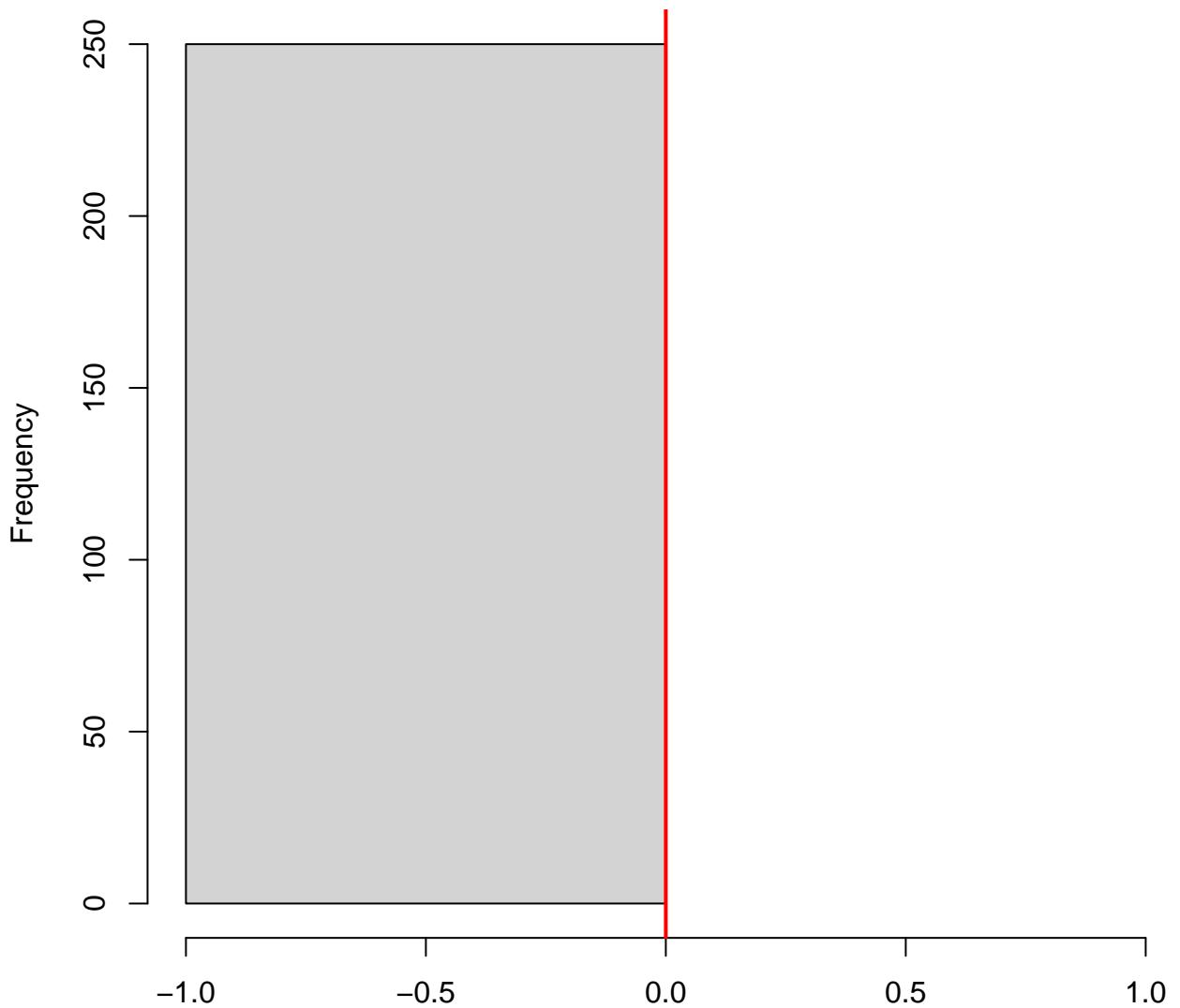
Simulated values, red line = fitted model. p-value (two.sided) = 1

**DHARMA zero-inflation test via comparison to
expected zeros with simulation under H0 = fitted
model**



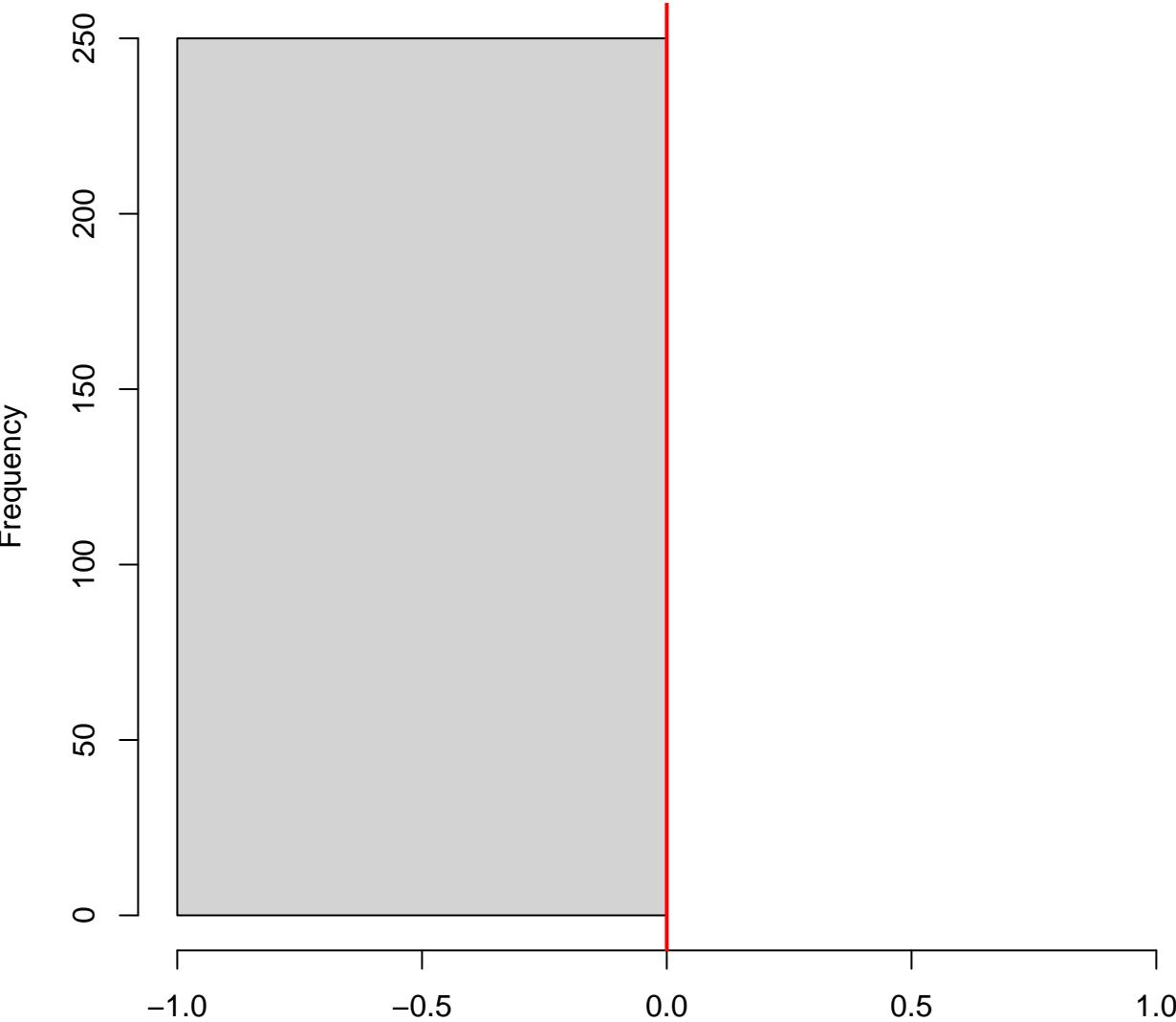
Simulated values, red line = fitted model. p-value (less) = 1

DHARMa generic simulation test



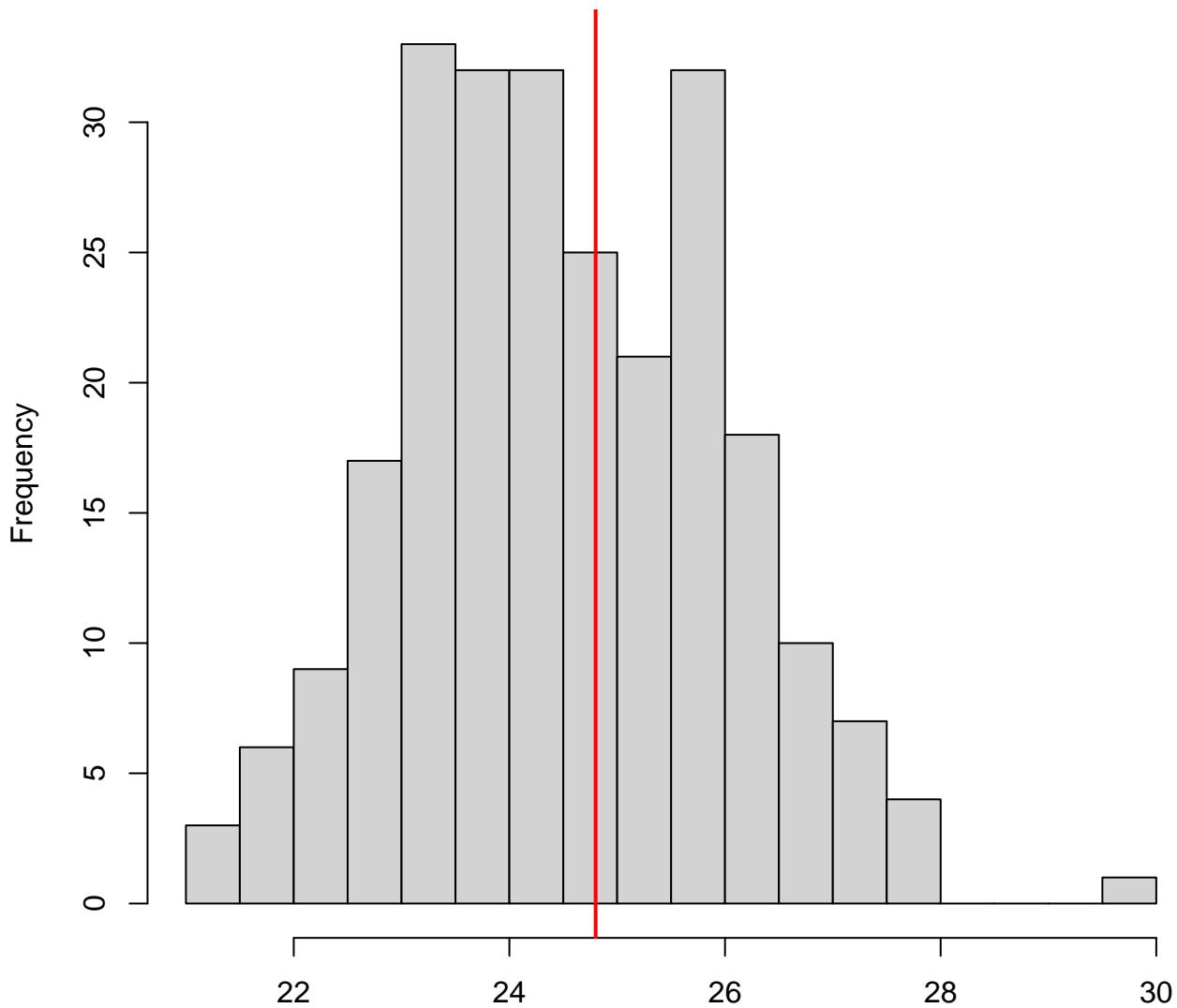
Simulated values, red line = fitted model. p-value (two.sided) = 1

DHARMA generic simulation test



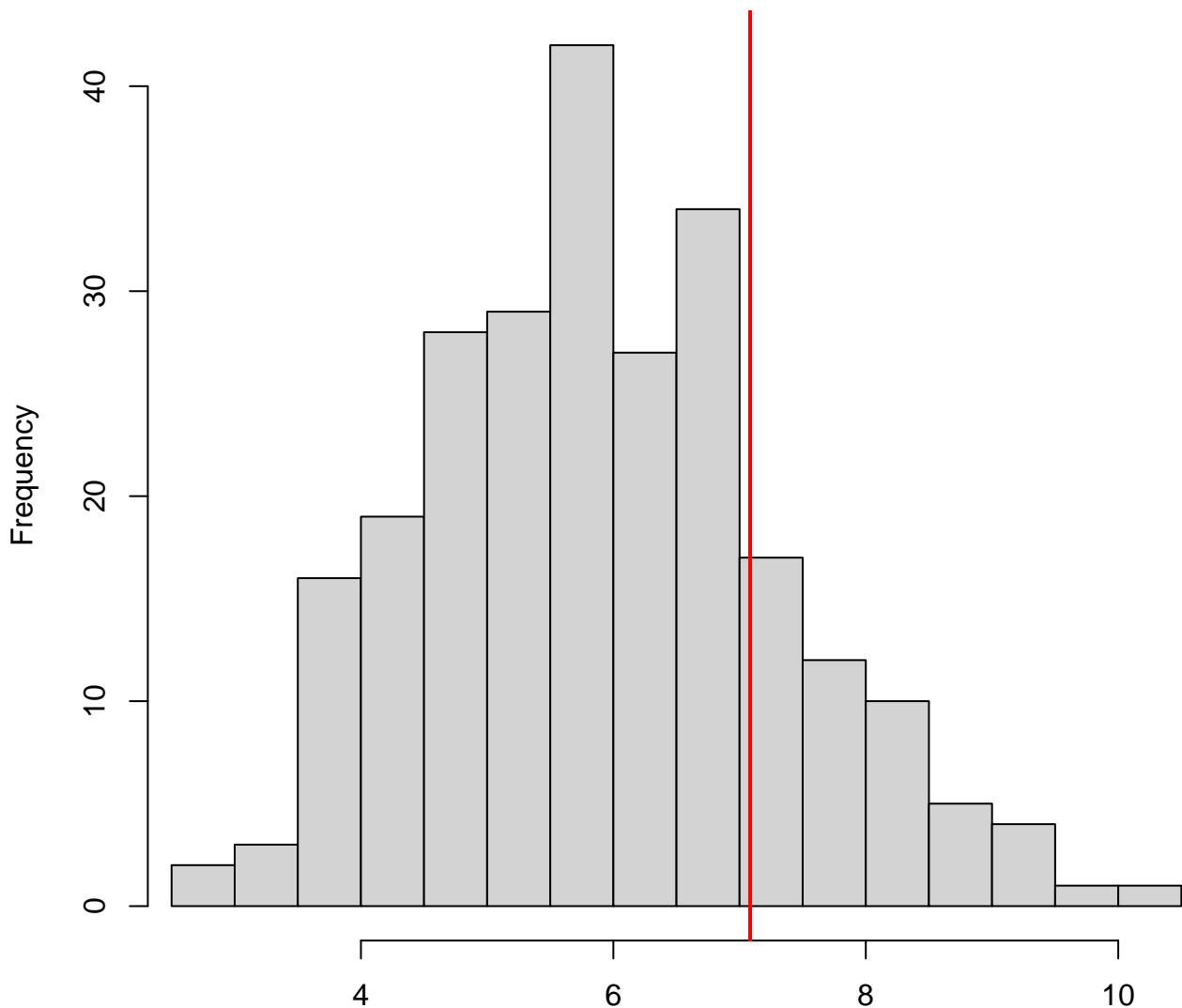
Simulated values, red line = fitted model. p-value (less) = 1

DHARMA generic simulation test



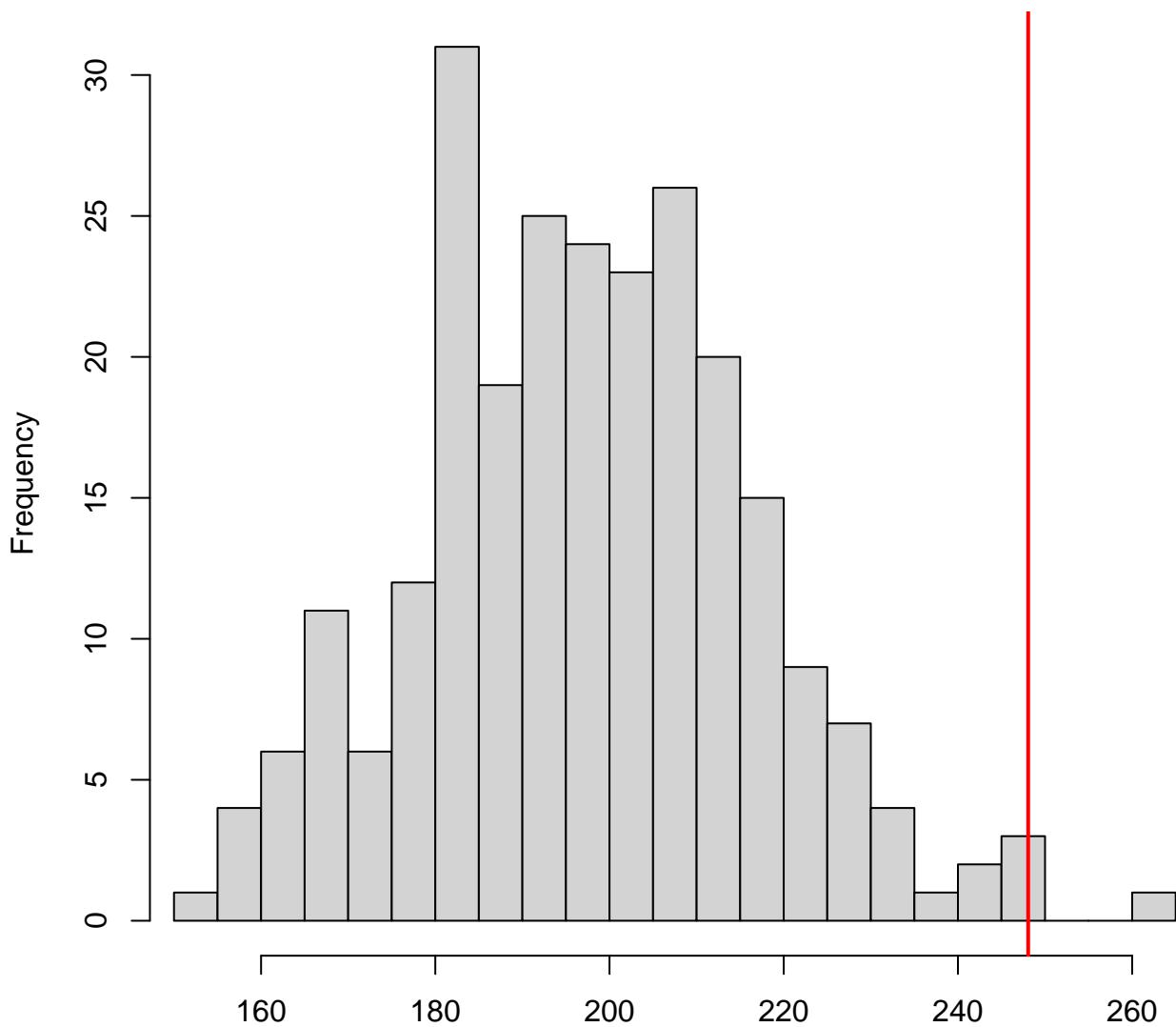
Simulated values, red line = fitted model. p-value (two.sided) = 0.848

DHARMA generic simulation test

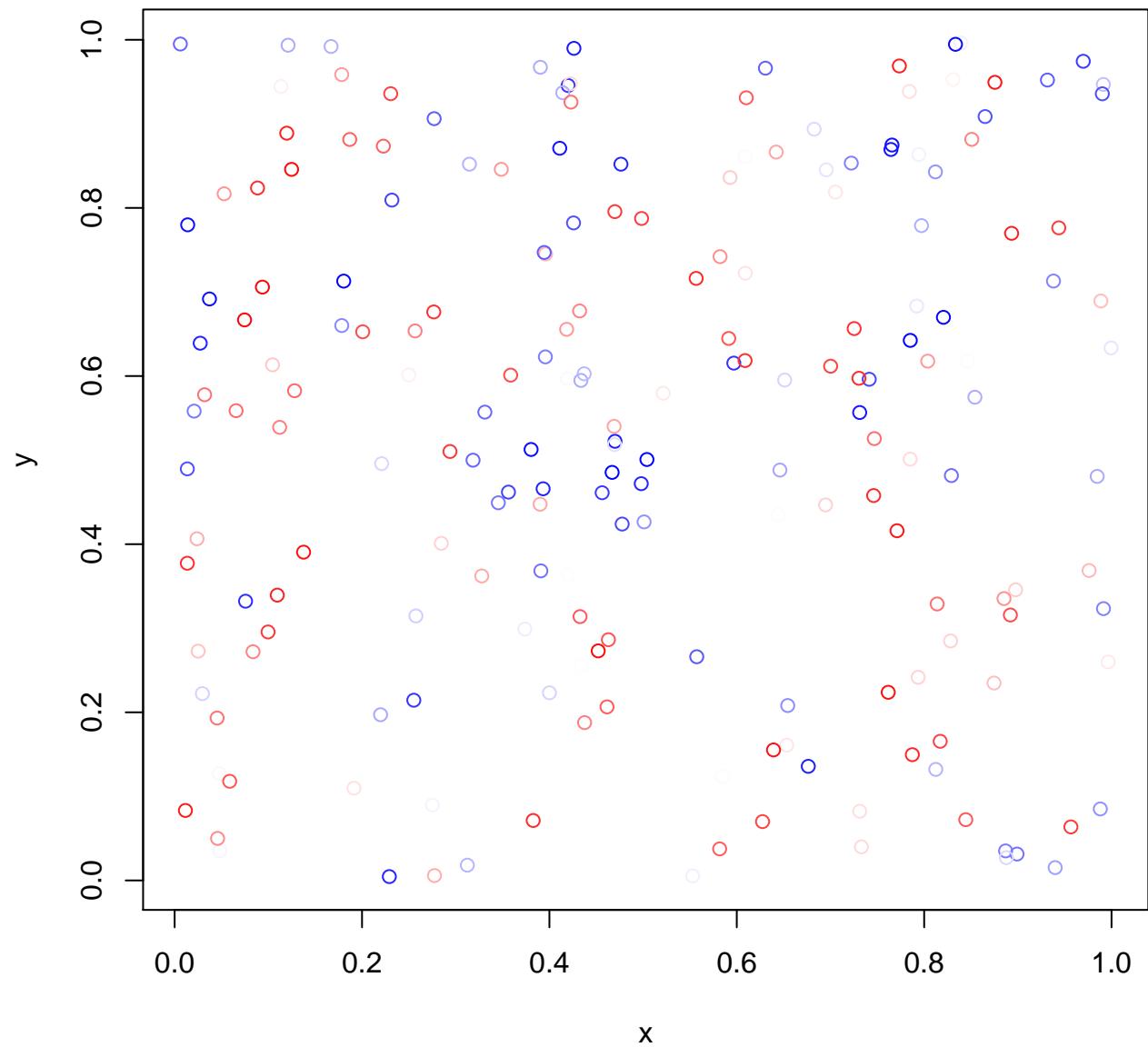


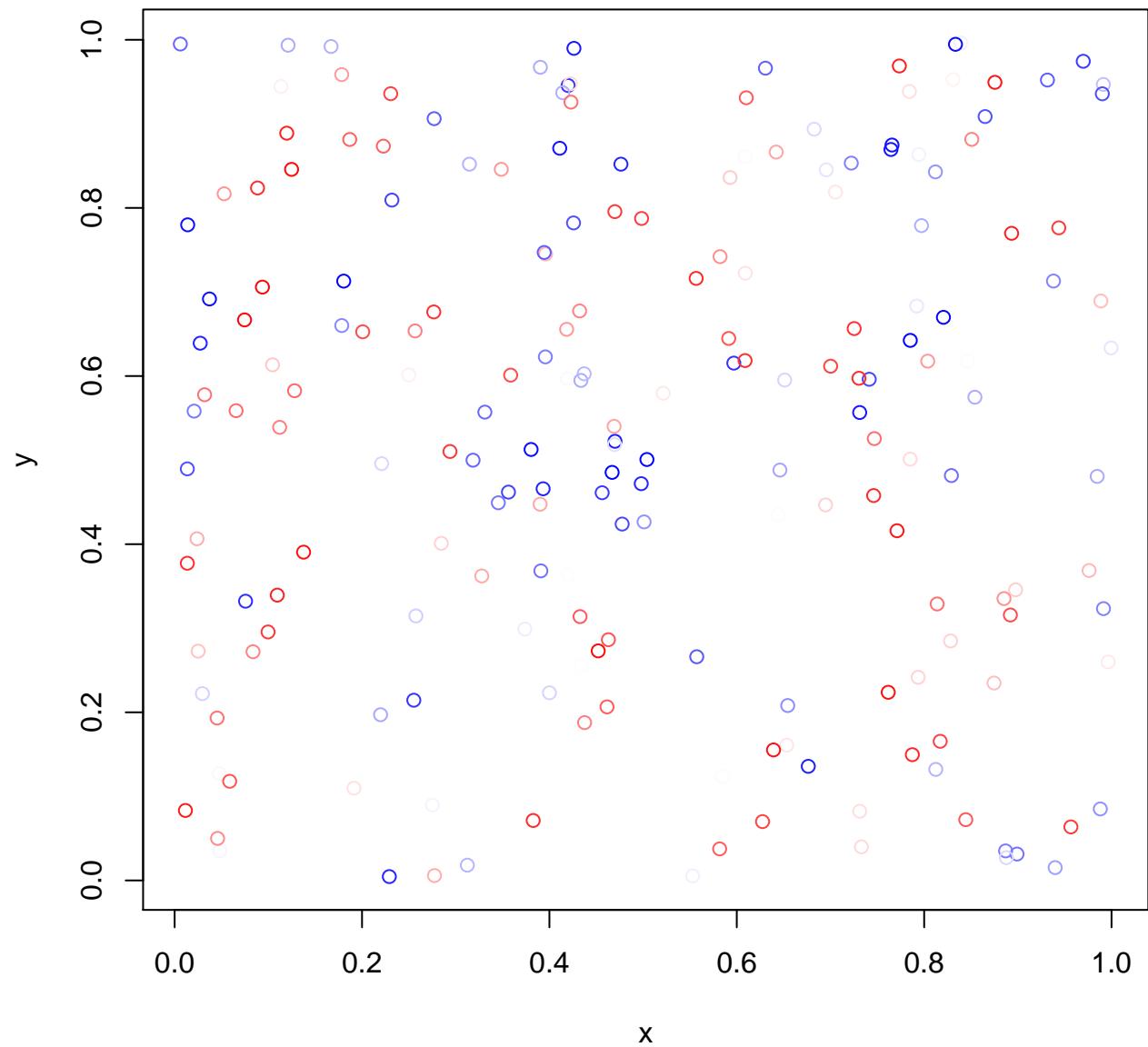
Simulated values, red line = fitted model. p-value (two.sided) = 0.384

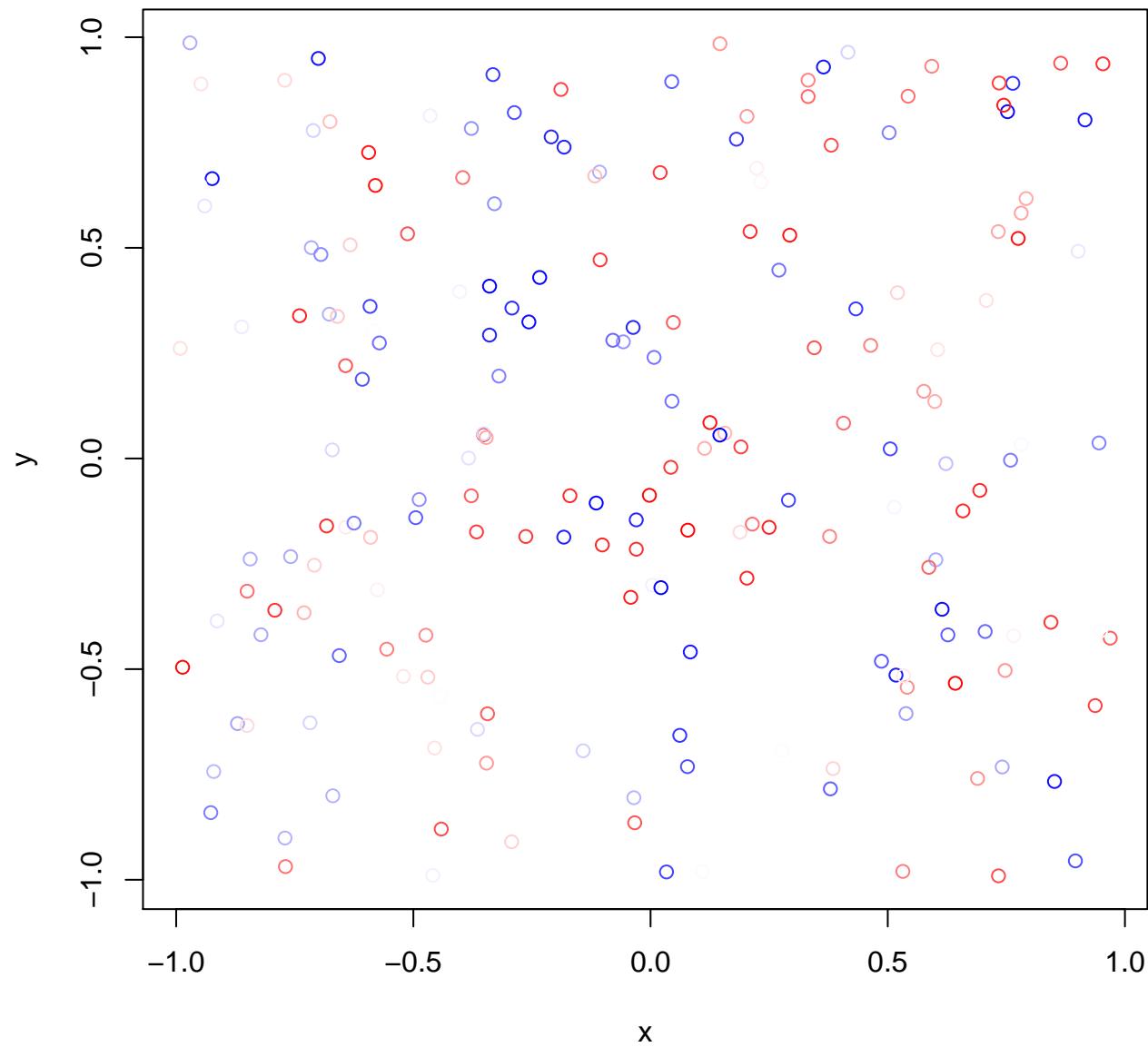
DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted

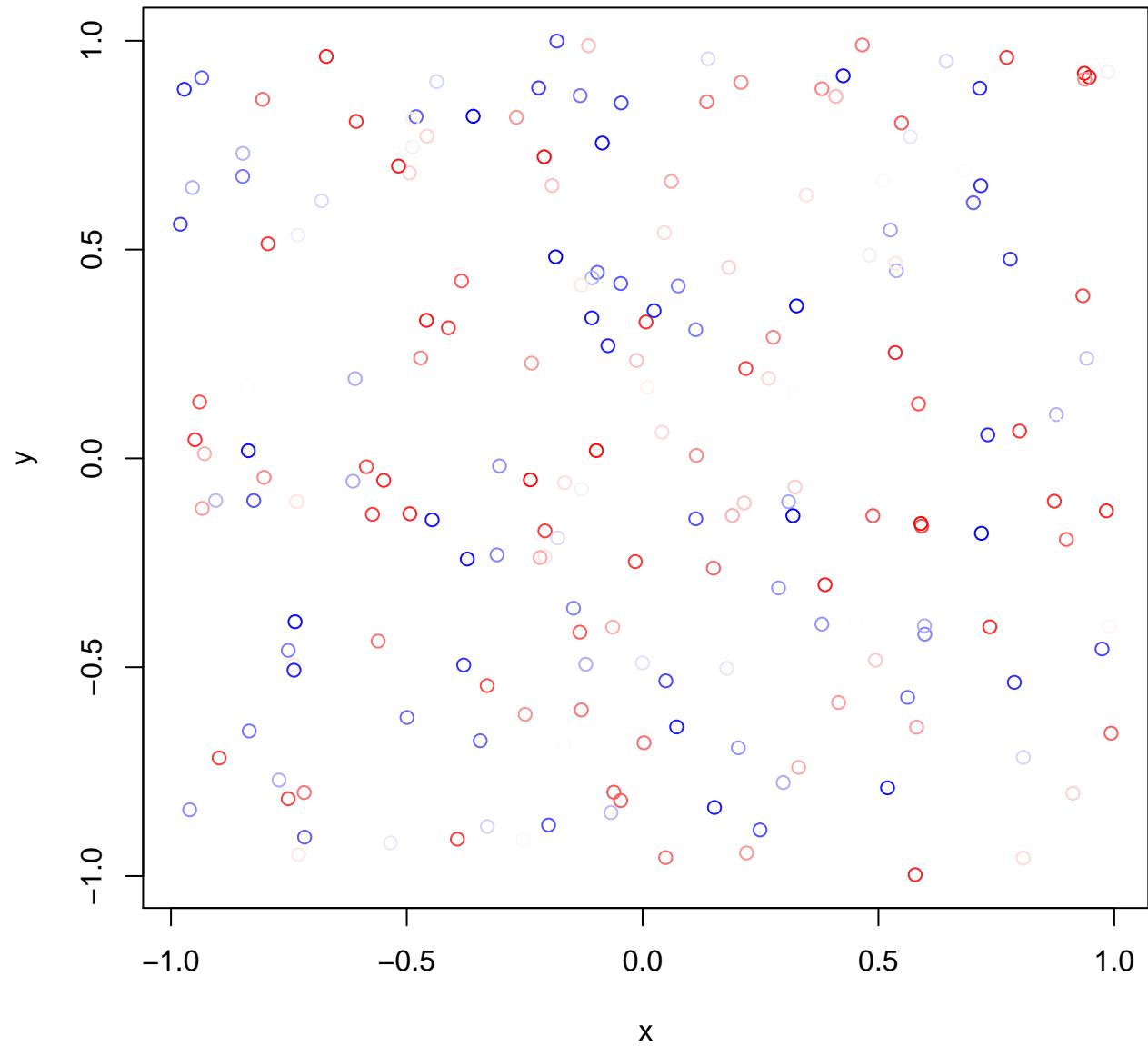


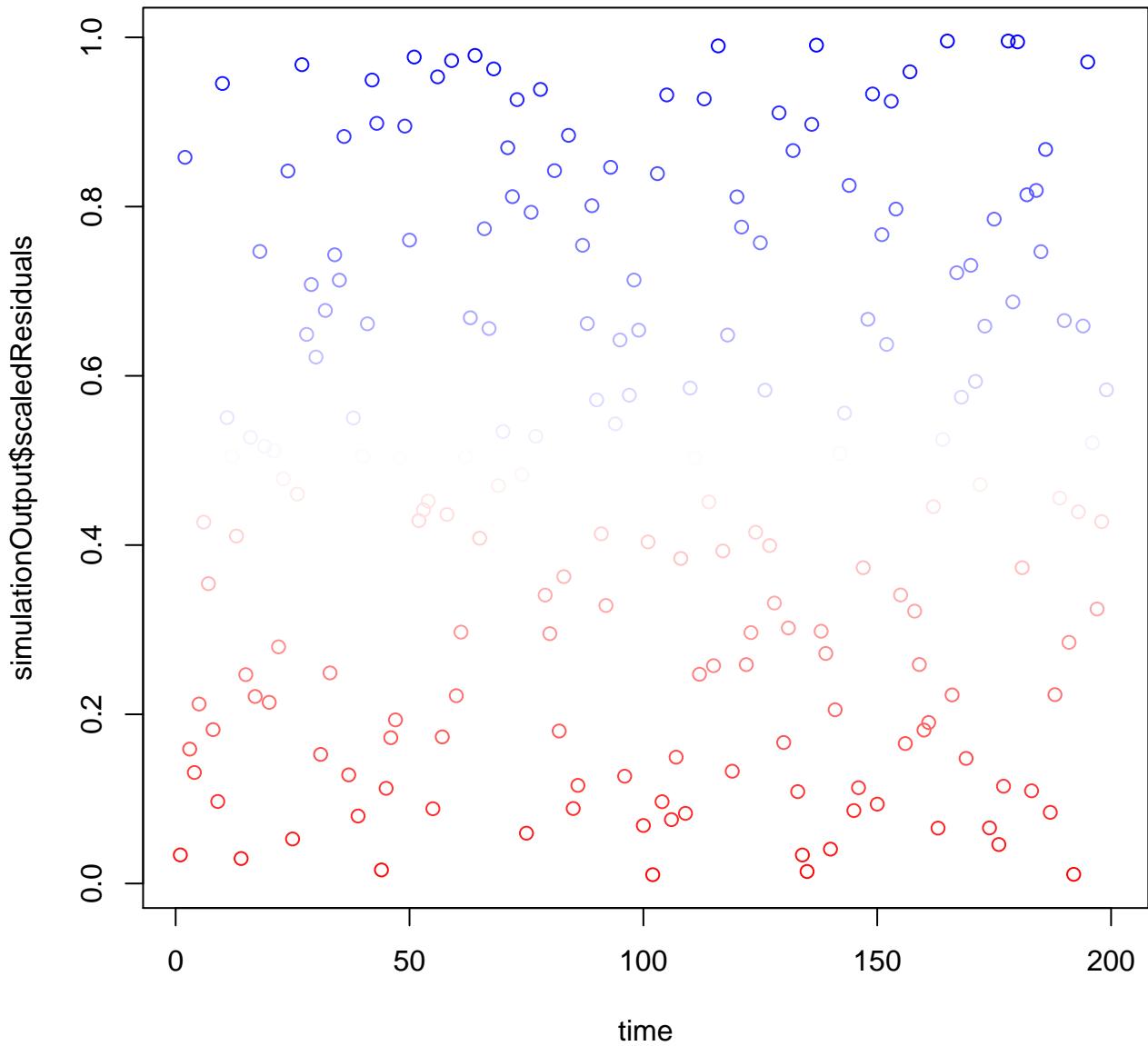
Simulated values, red line = fitted model. p-value (two.sided) = 0.016

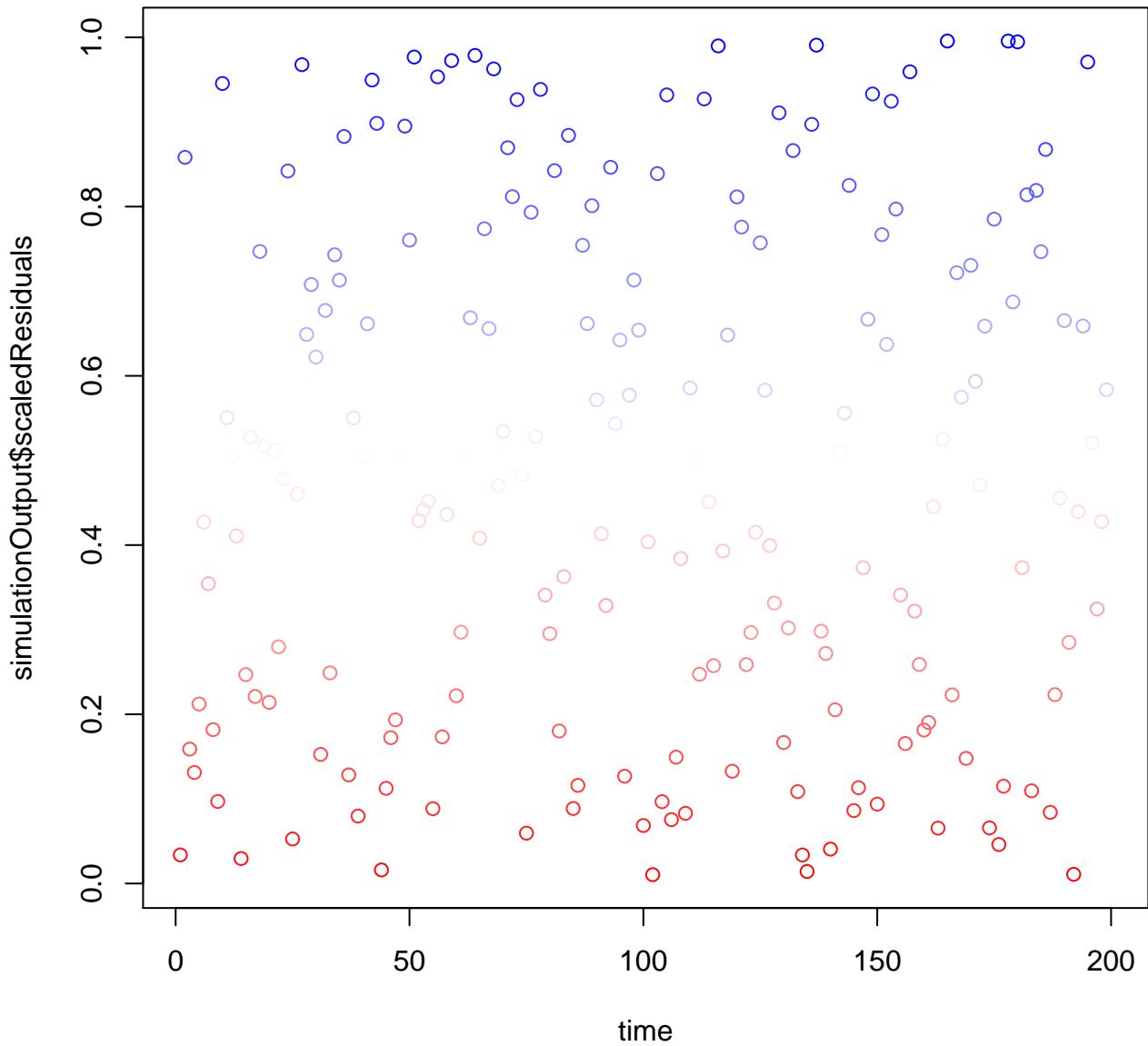


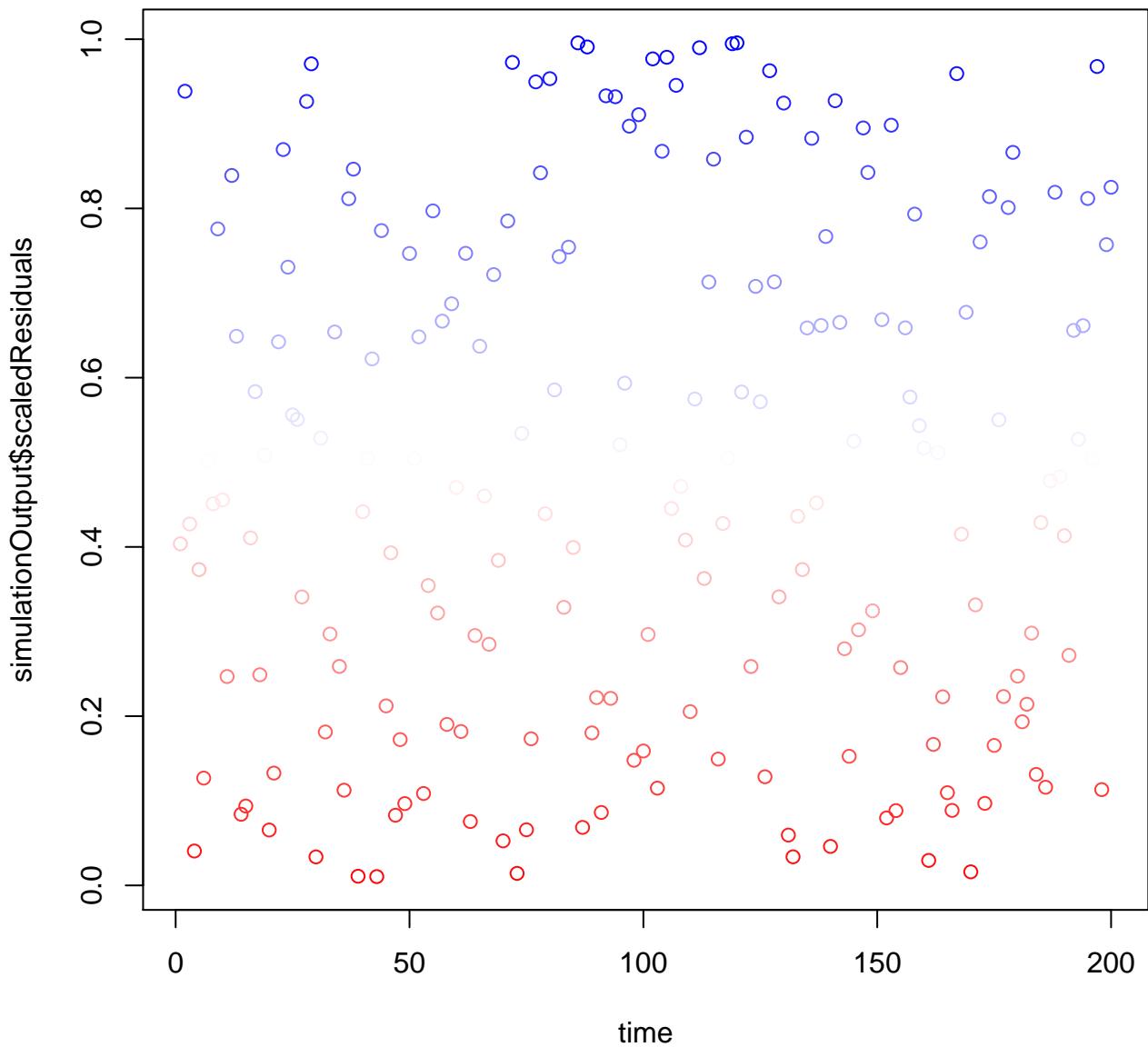




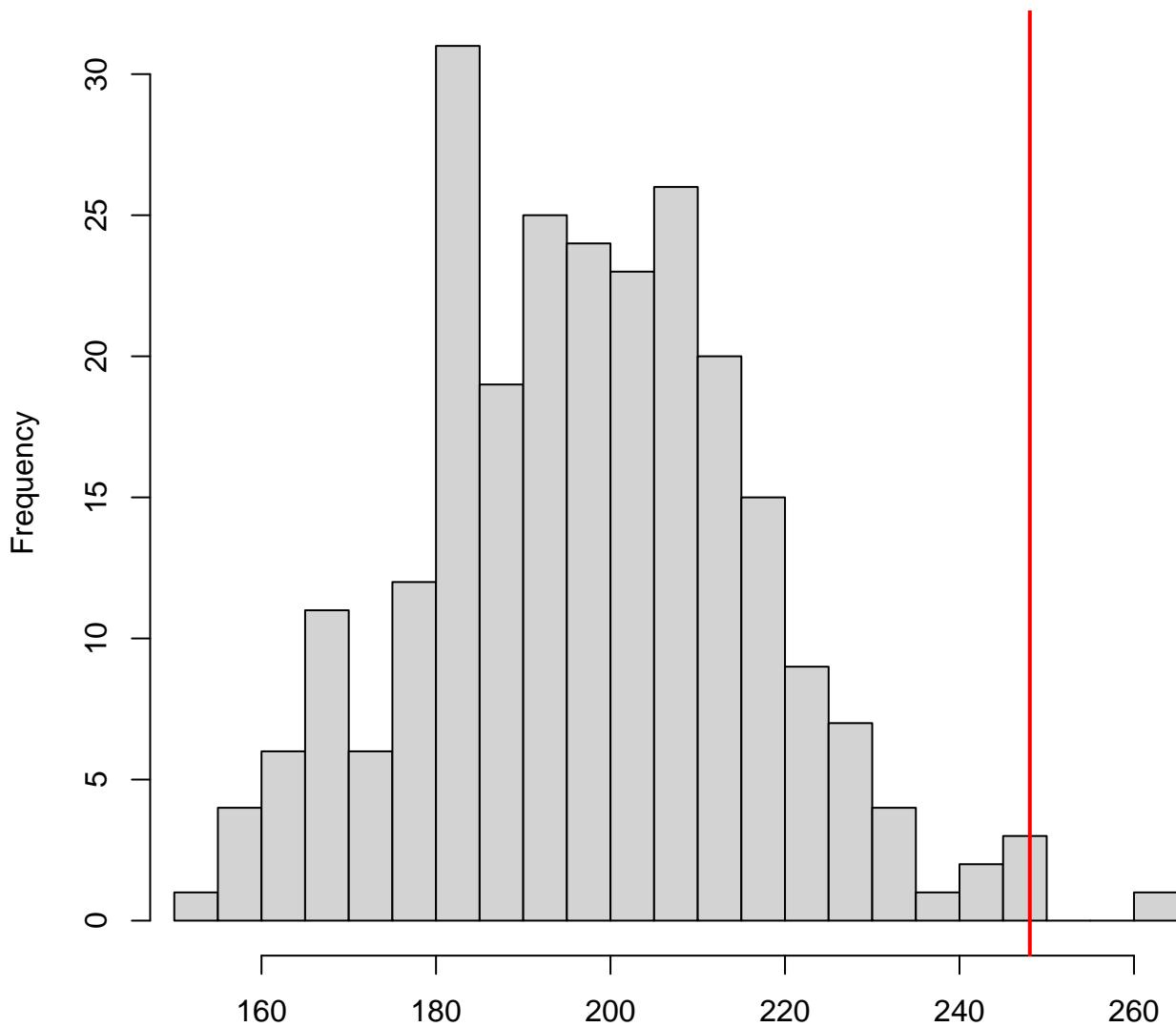








DHARMA nonparametric dispersion test via mean deviance residual fitted vs. simulated-refitted



Simulated values, red line = fitted model. p-value (two.sided) = 0.016

