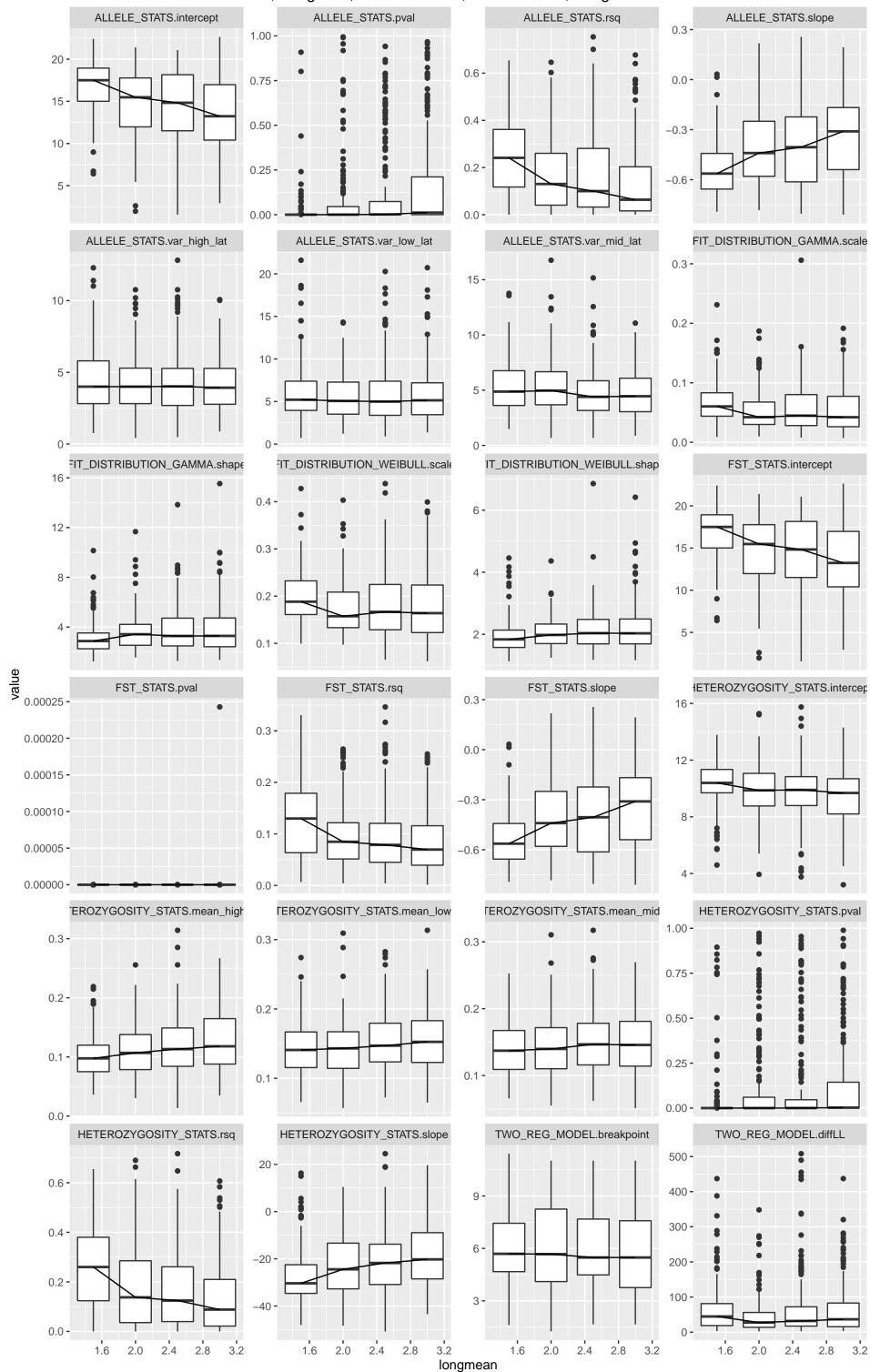
Mix: 0.1, refuges: 2, shortscale: 0.5, Glac front: 20, Marginal decrease: 1 ALLELE_STATS.pval ALLELE_STATS.rsq



Mix: 0.1, refuges: 3, shortscale: 0.5, Glac front: 20, Marginal decrease: 1 ALLELE_STATS.intercept ALLELE_STATS.pval ALLELE_STATS.rsq ALLELE_STATS.slope 25 1.00 -0.6 -20 -0.75 -0.0 -15 0.4 -0.50 -10 0.2 -0.5 **-**0.25 -5 -0 -0.00 -0.0 -ALLELE_STATS.var_high_lat ALLELE_STATS.var_low_lat ALLELE_STATS.var_mid_lat FIT_DISTRIBUTION_GAMMA.scale 16 -0.20 -20 -10 -12 -0.15 8 . 0.10 -10-5 **-**0.05 0.00 FIT_DISTRIBUTION_GAMMA.shape FIT_DISTRIBUTION_WEIBULL.scale IT_DISTRIBUTION_WEIBULL.shape FST_STATS.intercept 16 25 0.4 -6 **-**20 12 -0.3 -15 8 -10 -0.2 -5 -0 -HETEROZYGOSITY_STATS.intercep FST_STATS.pval FST_STATS.rsq FST_STATS.slope 0.3 -15 **-**0.003 -0.0 -0.2 -10 -0.002 -0.1 -0.001 --0.5 **-**0 -0.000 -0.0 -TEROZYGOSITY_STATS.mean_mid_ FEROZYGOSITY_STATS.mean_high TEROZYGOSITY_STATS.mean_low_ HETEROZYGOSITY_STATS.pval 0.30 1.00 -0.3 -0.3 -0.25 -0.75 0.20 -0.2 -0.2 -0.50 0.15 -0.25 -0.1 -0.10 0.1 -0.00 0.05 -HETEROZYGOSITY_STATS.rsq HETEROZYGOSITY_STATS.slope TWO_REG_MODEL.diffLL TWO_REG_MODEL.breakpoint 500 -0.6 -25 -400 -9 . 300 -0.4 0 -6 -200 -0.2 -–25 **-**100 -–50 **-**0.0 -0 -

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longmean

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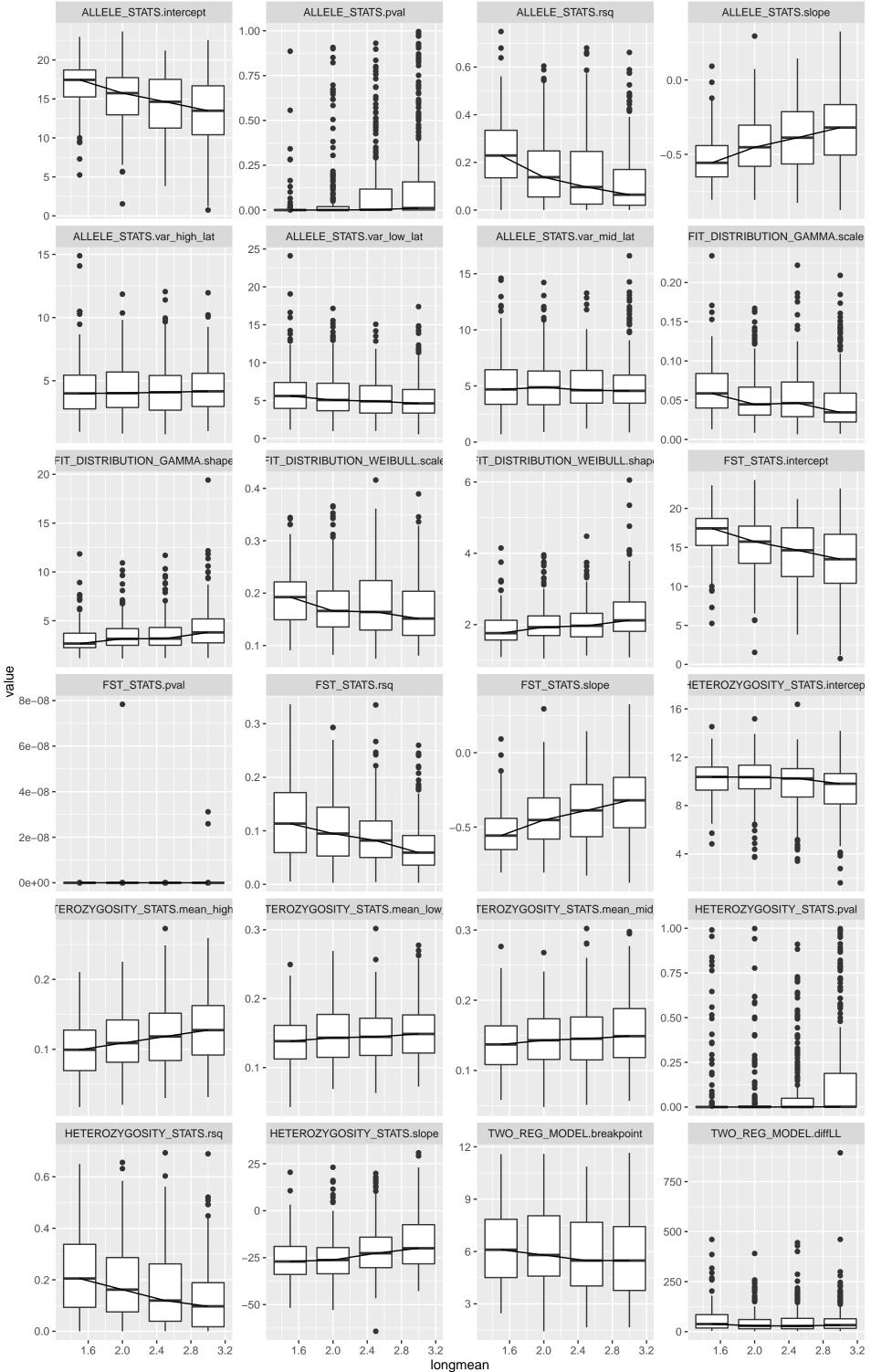
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Mix: 0.1, refuges: 4, shortscale: 0.5, Glac front: 20, Marginal decrease: 1 ALLELE_STATS.pval ALLELE_STATS.rsq 1.00 -



Mix: 0.1, refuges: 5, shortscale: 0.5, Glac front: 20, Marginal decrease: 1 ALLELE_STATS.intercept ALLELE_STATS.pval ALLELE_STATS.rsq ALLELE_STATS.slope 0.4 1.00 -0.6 20 -0.75 -0.0 15**-**0.4 0.50 10--0.4 **-**0.2 -0.25 -5. 0.0 0 -0.00 ALLELE_STATS.var_high_lat ALLELE_STATS.var_low_lat ALLELE_STATS.var_mid_lat FIT_DISTRIBUTION_GAMMA.scale 15 **-**0.20 -20 -20 -0.15 -15 -10 -0.10 -10 -10 -0.05 0.00 -FIT_DISTRIBUTION_GAMMA.shape FIT_DISTRIBUTION_WEIBULL.scale FIT_DISTRIBUTION_WEIBULL.shape FST_STATS.intercept 16 -6 0.4 20 12 15 0.3 -8 -10 -0.2 -5 · value value o.5 HETEROZYGOSITY_STATS.intercept FST_STATS.pval FST_STATS.rsq FST_STATS.slope 0.4 15 -0.4 -0.3 -0.0 0.3 -10 -0.2 -0.2 --0.4 **-**0.1 --0.8 0.0 -0.0 0 TEROZYGOSITY_STATS.mean_high TEROZYGOSITY_STATS.mean_low_ TEROZYGOSITY_STATS.mean_mid_ HETEROZYGOSITY_STATS.pval 1.00 -0.3 -0.3 -0.3 0.75 -0.2 -0.2 -0.2 -0.50 0.25 -0.1 -0.00 -TWO_REG_MODEL.breakpoint TWO_REG_MODEL.diffLL HETEROZYGOSITY_STATS.slope HETEROZYGOSITY_STATS.rsq 12 -750 -0.6 -20 9 -0 -500 -0.4 --20 **-**250 -0.2 --40 **-**

longmean

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Mix: 0.1, refuges: 1, shortscale: 0.5, Glac front: 20, Marginal decrease: 1 ALLELE_STATS.rsq ALLELE_STATS.intercept ALLELE_STATS.pval ALLELE_STATS.slope 1.00 -20 -0.6 -0.75 -0.0 -0.4 -0.50 10 --0.5 **-**0.2 0.25 5 -0.00 -0.0 -0 -ALLELE_STATS.var_high_lat ALLELE_STATS.var_low_lat ALLELE_STATS.var_mid_lat FIT_DISTRIBUTION_GAMMA.scale 20 -15 -0.15 -15 10 -10 0.10 10 -5 -0.05 0.00 FIT_DISTRIBUTION_GAMMA.shape FIT_DISTRIBUTION_WEIBULL.scale FIT_DISTRIBUTION_WEIBULL.shape FST_STATS.intercept 6 -20 15 **-**0.3 15 10 -0.2 -10 5 -5 0.1 0 -FST_STATS.pval FST_STATS.rsq FST_STATS.slope HETEROZYGOSITY_STATS.intercep 16 -0.3 -0.75 -0.0 -12 -0.2 0.50 -8 0.1 --0.5 **-**0.25 -0.0 0.00 -FEROZYGOSITY_STATS.mean_high TEROZYGOSITY_STATS.mean_low_ TEROZYGOSITY_STATS.mean_mid_ HETEROZYGOSITY_STATS.pval 1.00 -0.3 -0.3 -0.75 0.2 -0.2 -0.2 -0.50 0.1 0.25 0.1 -0.00 -TWO_REG_MODEL.breakpoint HETEROZYGOSITY_STATS.rsq HETEROZYGOSITY_STATS.slope TWO_REG_MODEL.diffLL 400 -20 · 0.6 -9 -300 -0 -0.4 -200 -–20 **-**0.2 -100 -40 **-**

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Mix: 0.05, refuges: 2, shortscale: 0.5, Glac front: 20, Marginal decrease: 1 ALLELE_STATS.intercept ALLELE_STATS.pval ALLELE_STATS.rsq ALLELE_STATS.slope 0.3 1.00 -0.6 0.0 0.75 -0.4 -0.50 --0.30.2 0.25 --0.6 0.00 -0.0 ALLELE_STATS.var_high_lat ALLELE_STATS.var_low_lat ALLELE_STATS.var_mid_lat FIT_DISTRIBUTION_GAMMA.scale 0.3 -20 -15 -15 -0.2 10 -10 -0.1 -0.0 -FIT_DISTRIBUTION_GAMMA.shape FIT_DISTRIBUTION_WEIBULL.scale IT_DISTRIBUTION_WEIBULL.shap FST_STATS.intercept 0.4 -20 -6 -0.3 -15 10 -0.2 -IETEROZYGOSITY_STATS.intercep FST_STATS.pval FST_STATS.rsq FST_STATS.slope 0.3 16 -0.3 -0.0 12 -0.2 --0.38 -0.1 --0.6 0.0 -EROZYGOSITY_STATS.mean_high FEROZYGOSITY_STATS.mean_low FEROZYGOSITY_STATS.mean_mid HETEROZYGOSITY_STATS.pval 1.00 0.3 -0.3 -0.75 0.2 -0.2 -0.50 0.25 0.1 0.1 HETEROZYGOSITY_STATS.rsq TWO_REG_MODEL.breakpoint HETEROZYGOSITY_STATS.slope TWO_REG_MODEL.diffLL 500 -20 -400 -9 300 --20 **-**200 -100 --40 **-**

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longmean

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Mix: 0.05, refuges: 3, shortscale: 0.5, Glac front: 20, Marginal decrease: 1 ALLELE_STATS.intercept ALLELE_STATS.pval ALLELE_STATS.rsq ALLELE_STATS.slope 1.00 -0.6 -0.75 -0.0 -0.4 -0.50 -0.2 -0.5 **-**0.25 -0.00 -0.0 -ALLELE_STATS.var_high_lat ALLELE_STATS.var_low_lat ALLELE_STATS.var_mid_lat FIT_DISTRIBUTION_GAMMA.scale 16 -0.20 -20 -12 -0.15 8 . 0.10 -10-0.05 0.00 FIT_DISTRIBUTION_GAMMA.shape FIT_DISTRIBUTION_WEIBULL.scale IT_DISTRIBUTION_WEIBULL.shape FST_STATS.intercept 25 0.4 -6 **-**20 0.3 -15 10 -0.2 -5 -0 -FST_STATS.pval FST_STATS.rsq FST_STATS.slope HETEROZYGOSITY_STATS.intercep 0.3 -15 **-**0.0 -0.2 -10 -0.1 --0.5 **-**0 -0.0 -TEROZYGOSITY_STATS.mean_mid_ FEROZYGOSITY_STATS.mean_high TEROZYGOSITY_STATS.mean_low_ HETEROZYGOSITY_STATS.pval 0.30 1.00 -0.3 -0.25 -0.75 0.20 -0.2 -0.50 0.15 -0.25 -0.10 0.1 -0.00 0.05 -HETEROZYGOSITY_STATS.rsq HETEROZYGOSITY_STATS.slope TWO_REG_MODEL.diffLL TWO_REG_MODEL.breakpoint 500 -25 -400 -9 . 300 -0 -6 -200 -–25 **-**

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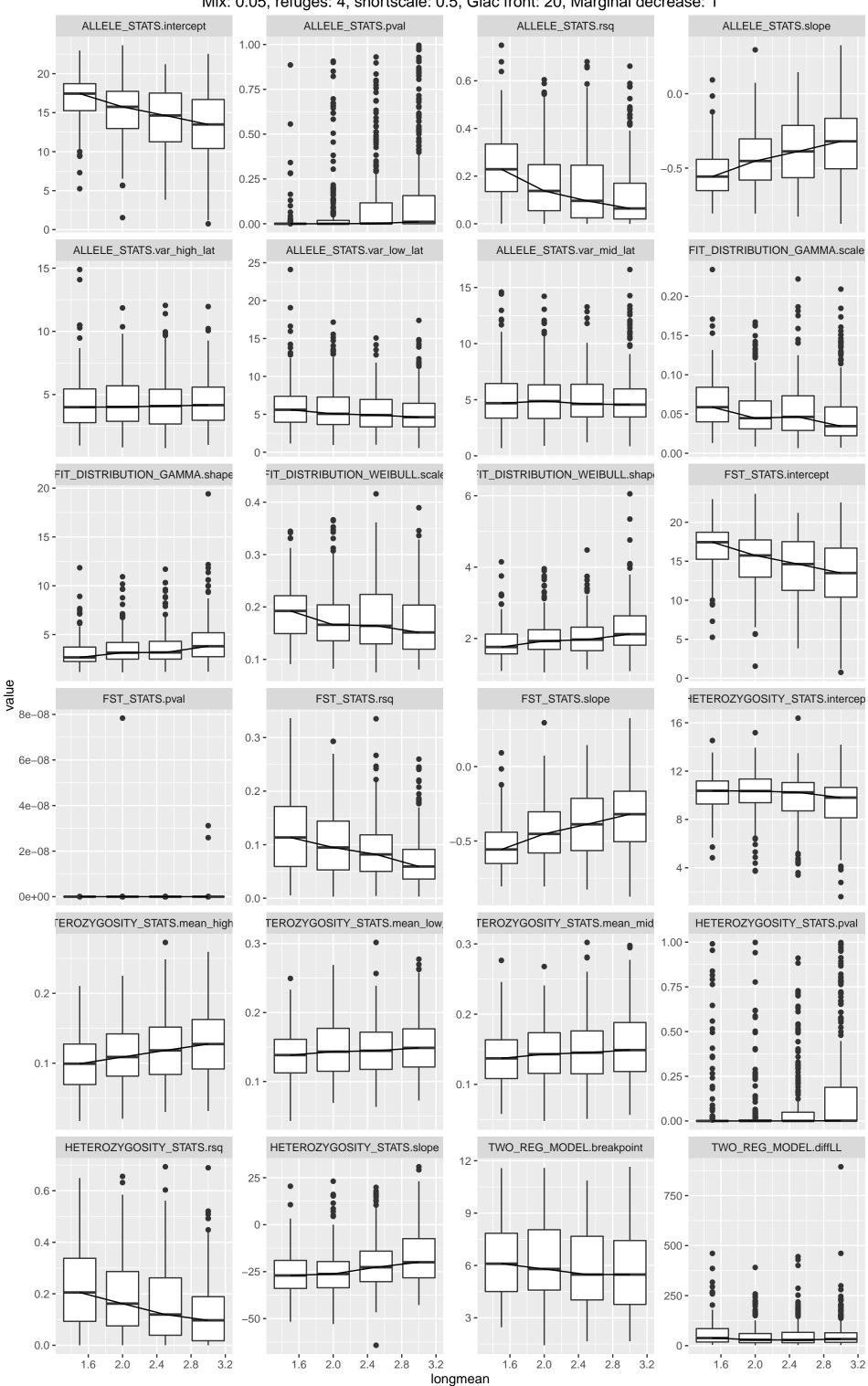
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Mix: 0.05, refuges: 4, shortscale: 0.5, Glac front: 20, Marginal decrease: 1



Mix: 0.05, refuges: 5, shortscale: 0.5, Glac front: 20, Marginal decrease: 1 ALLELE_STATS.pval ALLELE_STATS.intercept ALLELE_STATS.rsq ALLELE_STATS.slope 0.4 1.00 -0.6 20 -0.75 -0.0 15**-**0.4 0.50 10--0.4 -0.2 -0.25 -5. 0.0 0 -0.00 ALLELE_STATS.var_high_lat ALLELE_STATS.var_low_lat ALLELE_STATS.var_mid_lat FIT_DISTRIBUTION_GAMMA.scale 15 **-**0.20 -20 -20 -0.15 -15 -10 -0.10 -10 -10 -0.05 0.00 -FIT_DISTRIBUTION_GAMMA.shape FIT_DISTRIBUTION_WEIBULL.scale FIT_DISTRIBUTION_WEIBULL.shape FST_STATS.intercept 16 -6 0.4 20 12 15 0.3 -8 -10 -0.2 -5 · value value o.5 HETEROZYGOSITY_STATS.intercept FST_STATS.pval FST_STATS.rsq FST_STATS.slope 0.4 15 -0.4 -0.3 -0.0 0.3 -10 -0.2 -0.2 --0.4 **-**0.1 --0.8 0.0 -0.0 0 TEROZYGOSITY_STATS.mean_high TEROZYGOSITY_STATS.mean_low_ TEROZYGOSITY_STATS.mean_mid_ HETEROZYGOSITY_STATS.pval 1.00 -0.3 -0.3 -0.3 0.75 -0.2 -0.2 -0.2 -0.50 0.25 -0.1 -0.00 -TWO_REG_MODEL.breakpoint TWO_REG_MODEL.diffLL HETEROZYGOSITY_STATS.slope HETEROZYGOSITY_STATS.rsq 12 -750 -0.6 -20 9 -0 -500 -0.4 --20 **-**250 -0.2 --40 **-**0.0 -

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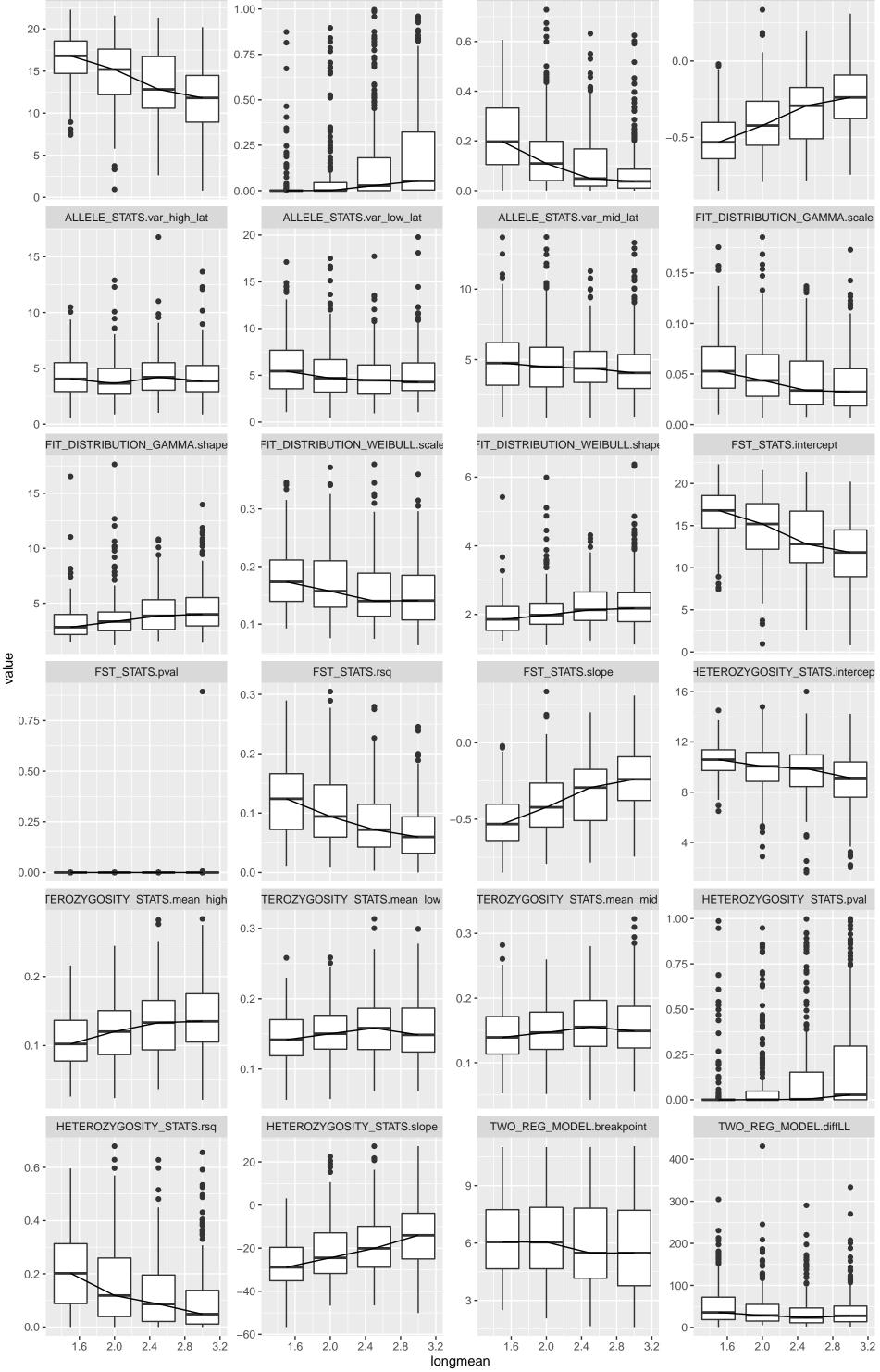
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Mix: 0.05, refuges: 1, shortscale: 0.5, Glac front: 20, Marginal decrease: 1 ALLELE_STATS.intercept ALLELE_STATS.pval ALLELE_STATS.rsq ALLELE_STATS.slope 1.00 -0.6 -0.75 -0.0 -0.4 -0.50 -0.5 **-**0.2 0.25 0.00 -0.0 -ALLELE_STATS.var_low_lat ALLELE_STATS.var_mid_lat FIT_DISTRIBUTION_GAMMA.scale 20 -0.15 15 10 -0.10 10 -0.05 0.00 FIT_DISTRIBUTION_WEIBULL.scale FIT_DISTRIBUTION_WEIBULL.shape FST_STATS.intercept 6 -20 0.3 15 0.2 -10 5 0.1 0 -FST_STATS.rsq FST_STATS.slope HETEROZYGOSITY_STATS.intercep 16 -0.3 -0.0 -12 -0.2 8 0.1 --0.5 **-**0.0 TEROZYGOSITY_STATS.mean_low_ TEROZYGOSITY_STATS.mean_mid_ HETEROZYGOSITY_STATS.pval 1.00 -0.3 -0.3 -0.75 0.2 -0.2 -0.50 0.25 0.1 -0.00 -TWO_REG_MODEL.breakpoint HETEROZYGOSITY_STATS.slope TWO_REG_MODEL.diffLL 400 -20 · 9 -300 -0 -



Mix: 0.01, refuges: 2, shortscale: 0.5, Glac front: 20, Marginal decrease: 1 ALLELE_STATS.pval ALLELE_STATS.intercept ALLELE_STATS.rsq ALLELE_STATS.slope 0.3 1.00 -20 -0.6 0.0 0.75 -15 **-**0.4 -0.50 --0.30.2 0.25 --0.6 0.00 -0.0 ALLELE_STATS.var_high_lat ALLELE_STATS.var_low_lat ALLELE_STATS.var_mid_lat FIT_DISTRIBUTION_GAMMA.scale 0.3 -20 -15 -10-15 -0.2 10 -10 -0.1 -0.0 -FIT_DISTRIBUTION_GAMMA.shape FIT_DISTRIBUTION_WEIBULL.scale IT_DISTRIBUTION_WEIBULL.shap FST_STATS.intercept 0.4 -20 -6 -0.3 -15 10 -0.2 value IETEROZYGOSITY_STATS.intercep FST_STATS.pval FST_STATS.rsq FST_STATS.slope 0.3 16 -0.3 -0.00020 -0.0 12 -0.00015 -0.2 --0.30.00010 -8 -0.1 -0.00005 --0.6 0.0 -0.00000 -EROZYGOSITY_STATS.mean_high FEROZYGOSITY_STATS.mean_low FEROZYGOSITY_STATS.mean_mid HETEROZYGOSITY_STATS.pval 1.00 0.3 -0.3 -0.3 -0.75 0.2 -0.2 -0.2 -0.50 0.1 -0.25 0.1 0.1 HETEROZYGOSITY_STATS.rsq TWO_REG_MODEL.breakpoint HETEROZYGOSITY_STATS.slope TWO_REG_MODEL.diffLL 500 -20 -0.6 -400 -9 300 --20 **-**200 -100 --40 **-**

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Mix: 0.01, refuges: 3, shortscale: 0.5, Glac front: 20, Marginal decrease: 1 ALLELE_STATS.intercept ALLELE_STATS.pval ALLELE_STATS.rsq ALLELE_STATS.slope 1.00 -0.6 -0.75 -0.0 -0.4 -0.50 -0.2 -0.5 **-**0.25 -0.00 -0.0 -ALLELE_STATS.var_high_lat ALLELE_STATS.var_low_lat ALLELE_STATS.var_mid_lat FIT_DISTRIBUTION_GAMMA.scale 16 -0.20 -20 -12 -0.15 8 . 0.10 -10-0.05 0.00 FIT_DISTRIBUTION_GAMMA.shape FIT_DISTRIBUTION_WEIBULL.scale IT_DISTRIBUTION_WEIBULL.shape FST_STATS.intercept 25 0.4 -6 **-**20 0.3 -15 10 -0.2 -5 -0 -FST_STATS.pval FST_STATS.rsq FST_STATS.slope HETEROZYGOSITY_STATS.intercep 0.3 -15 **-**0.0 -0.2 -10 -0.1 --0.5 **-**0 -0.0 -TEROZYGOSITY_STATS.mean_mid_ FEROZYGOSITY_STATS.mean_high TEROZYGOSITY_STATS.mean_low_ HETEROZYGOSITY_STATS.pval 0.30 1.00 -0.3 -0.25 -0.75 0.20 -0.2 -0.50 0.15 -0.25 -0.10 0.1 -0.00 0.05 -HETEROZYGOSITY_STATS.rsq HETEROZYGOSITY_STATS.slope TWO_REG_MODEL.diffLL TWO_REG_MODEL.breakpoint 500 -25 -400 -9 . 300 -0 -6 -200 -–25 **-**

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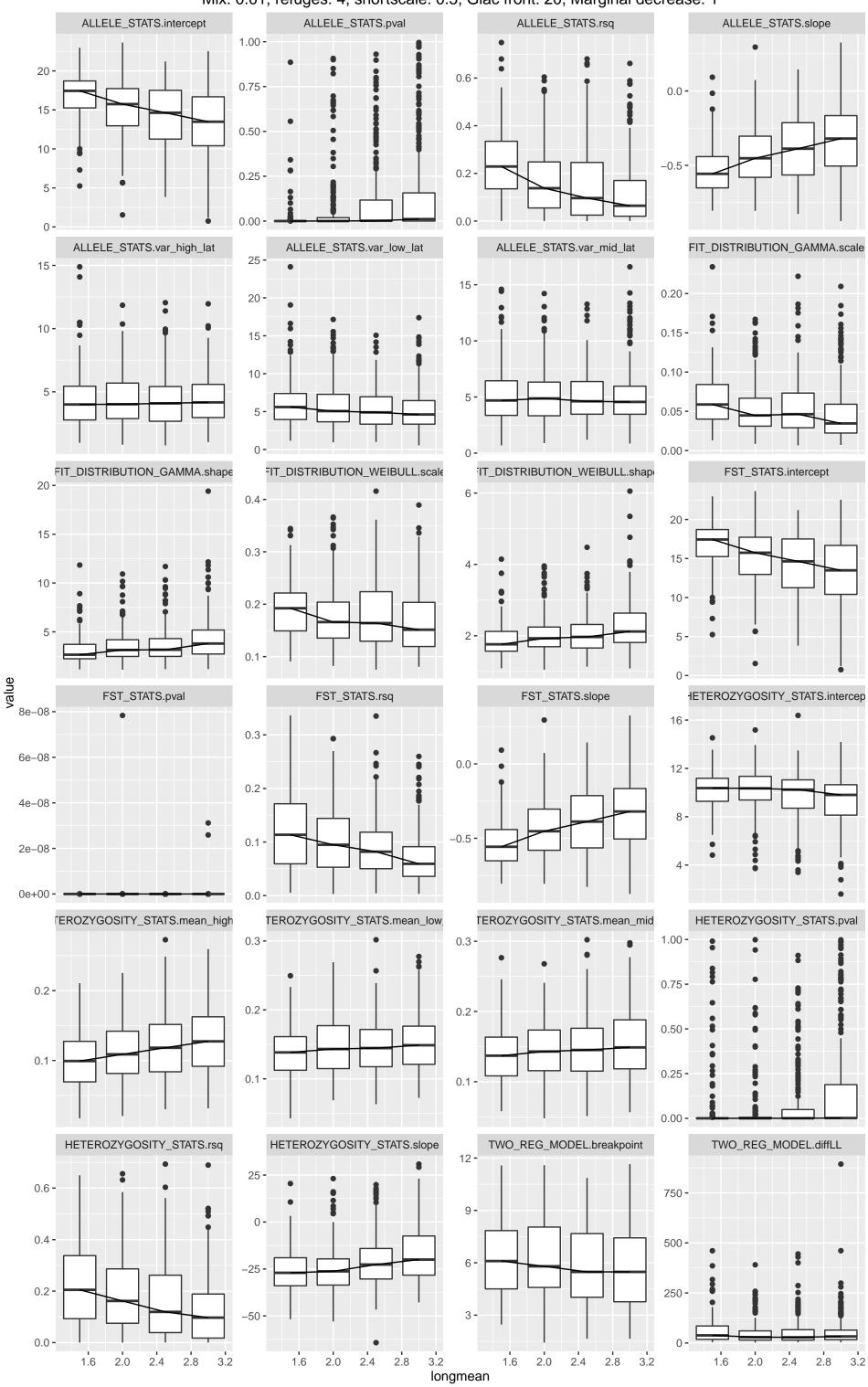
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Mix: 0.01, refuges: 4, shortscale: 0.5, Glac front: 20, Marginal decrease: 1



Mix: 0.01, refuges: 5, shortscale: 0.5, Glac front: 20, Marginal decrease: 1 ALLELE_STATS.pval ALLELE_STATS.intercept ALLELE_STATS.rsq ALLELE_STATS.slope 0.4 1.00 -0.6 20 -0.75 -0.0 15**-**0.4 0.50 10--0.4 -0.2 -0.25 -5. 0.0 0 -0.00 ALLELE_STATS.var_high_lat ALLELE_STATS.var_low_lat ALLELE_STATS.var_mid_lat FIT_DISTRIBUTION_GAMMA.scale 15 **-**0.20 -20 -20 -0.15 -15 -10 -0.10 -10 -10 -0.05 0.00 -FIT_DISTRIBUTION_GAMMA.shape FIT_DISTRIBUTION_WEIBULL.scale FIT_DISTRIBUTION_WEIBULL.shape FST_STATS.intercept 16 -6 0.4 20 12 15 0.3 -8 -10 -0.2 -5 · value value o.5 HETEROZYGOSITY_STATS.intercept FST_STATS.pval FST_STATS.rsq FST_STATS.slope 0.4 15 -0.4 -0.3 -0.0 0.3 -10 -0.2 -0.2 --0.4 **-**0.1 --0.8 0.0 -0.0 0 TEROZYGOSITY_STATS.mean_high TEROZYGOSITY_STATS.mean_low_ TEROZYGOSITY_STATS.mean_mid_ HETEROZYGOSITY_STATS.pval 1.00 -0.3 -0.3 -0.3 0.75 -0.2 -0.2 -0.2 -0.50 0.25 -0.1 -0.00 -TWO_REG_MODEL.breakpoint TWO_REG_MODEL.diffLL HETEROZYGOSITY_STATS.slope HETEROZYGOSITY_STATS.rsq 12 -750 -0.6 -20 9 -0 -500 -0.4 --20 **-**250 -0.2 --40 **-**0.0 -1.6 3.2

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Mix: 0.01, refuges: 1, shortscale: 0.5, Glac front: 20, Marginal decrease: 1 ALLELE_STATS.rsq ALLELE_STATS.intercept ALLELE_STATS.pval ALLELE_STATS.slope 1.00 -0.6 -0.75 -0.0 -0.4 -0.50 -0.5 **-**0.2 0.25 0.00 -0.0 -ALLELE_STATS.var_high_lat ALLELE_STATS.var_low_lat ALLELE_STATS.var_mid_lat FIT_DISTRIBUTION_GAMMA.scale 20 -0.15 15 10 -0.10 10 -0.05 0.00 FIT_DISTRIBUTION_GAMMA.shape FIT_DISTRIBUTION_WEIBULL.scale FIT_DISTRIBUTION_WEIBULL.shape FST_STATS.intercept 6 -20 0.3 15 0.2 -10 5 0.1 0 -FST_STATS.pval FST_STATS.rsq FST_STATS.slope HETEROZYGOSITY_STATS.intercep 16 -0.3 -0.0 -12 -0.2 8 0.1 --0.5 **-**0.0 FEROZYGOSITY_STATS.mean_high TEROZYGOSITY_STATS.mean_low_ TEROZYGOSITY_STATS.mean_mid_ HETEROZYGOSITY_STATS.pval 1.00 -0.3 -0.3 -0.75 0.2 -0.2 -0.50 0.25 0.1 -0.00 -TWO_REG_MODEL.breakpoint HETEROZYGOSITY_STATS.rsq HETEROZYGOSITY_STATS.slope TWO_REG_MODEL.diffLL 400 -20 · 9 -300 -0 -

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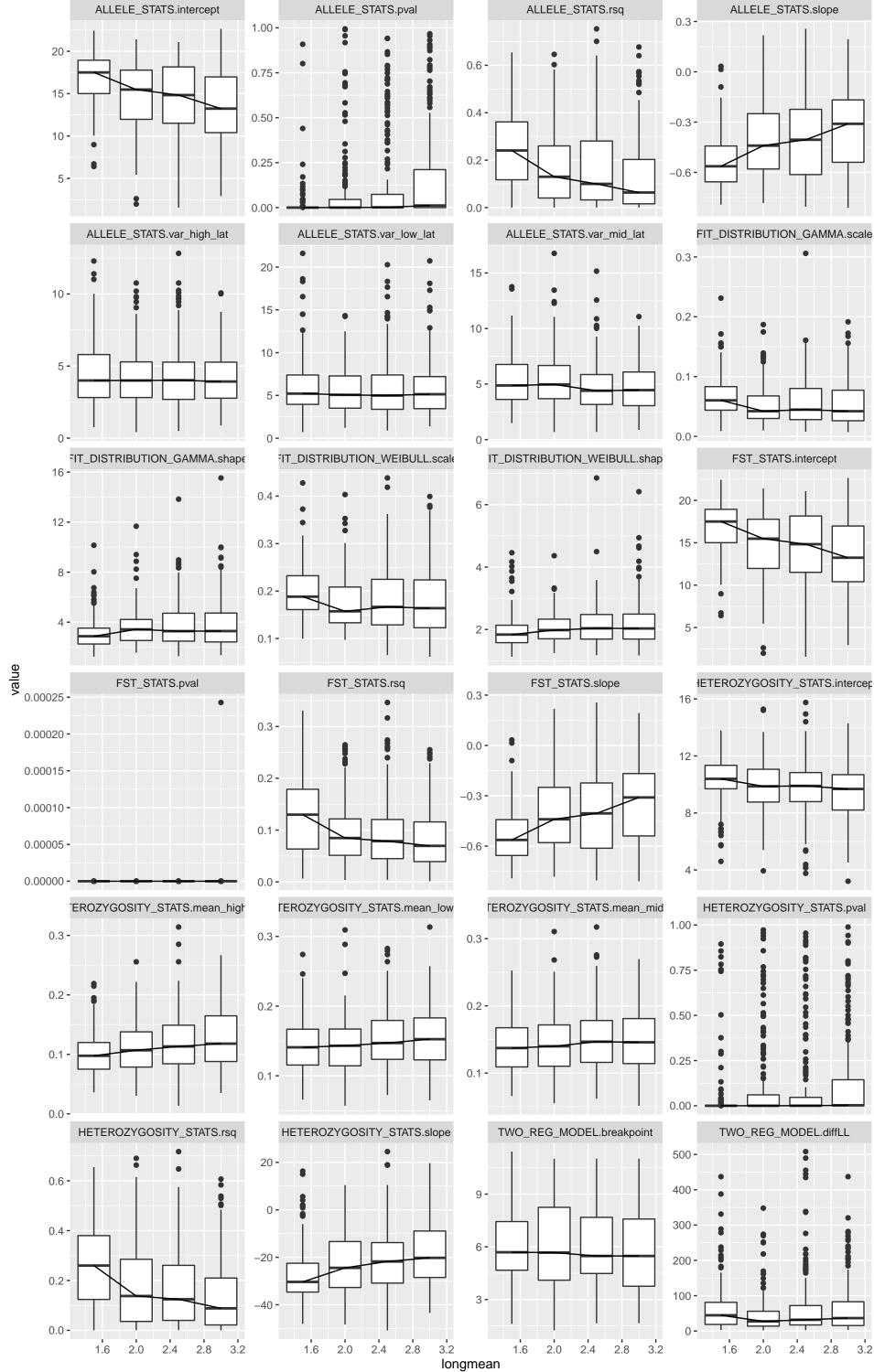
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value

Mix: 0.001, refuges: 2, shortscale: 0.5, Glac front: 20, Marginal decrease: 1 ALLELE_STATS.pval ALLELE_STATS.rsq ALLELE_STATS.slope 0.3 1.00 -0.6 0.0 0.75 -0.4 -0.50 --0.30.2 0.25 --0.6 0.00 -0.0 ALLELE_STATS.var_low_lat ALLELE_STATS.var_mid_lat FIT_DISTRIBUTION_GAMMA.scale 0.3 -20 -15 -15 -0.2 10 -10 -0.1 -0.0 -FIT_DISTRIBUTION_WEIBULL.scale IT_DISTRIBUTION_WEIBULL.shap FST_STATS.intercept 0.4 -20 -6 -0.3 -15 -10 -0.2 -IETEROZYGOSITY_STATS.intercep FST_STATS.rsq FST_STATS.slope 0.3 16 -0.3 -0.0 12 -0.2 --0.38 -0.1 --0.6 0.0 -FEROZYGOSITY_STATS.mean_low FEROZYGOSITY_STATS.mean_mid HETEROZYGOSITY_STATS.pval 1.00 0.3 -0.3 -0.75 0.2 -0.2 -0.50 0.25 0.1 0.1 TWO_REG_MODEL.breakpoint HETEROZYGOSITY_STATS.slope TWO_REG_MODEL.diffLL 500 -20 -400 -9 300 -



Mix: 0.001, refuges: 3, shortscale: 0.5, Glac front: 20, Marginal decrease: 1 ALLELE_STATS.pval ALLELE_STATS.intercept ALLELE_STATS.rsq ALLELE_STATS.slope 1.00 -0.6 -0.75 -0.0 -0.4 -0.50 -0.2 -0.5 **-**0.25 -0.00 -0.0 -ALLELE_STATS.var_high_lat ALLELE_STATS.var_low_lat ALLELE_STATS.var_mid_lat FIT_DISTRIBUTION_GAMMA.scale 16 -0.20 -20 -12 -0.15 8 . 0.10 -10-0.05 0.00 FIT_DISTRIBUTION_GAMMA.shape FIT_DISTRIBUTION_WEIBULL.scale IT_DISTRIBUTION_WEIBULL.shape FST_STATS.intercept 25 0.4 -6 **-**20 0.3 -15 10 -0.2 -5 -0 -HETEROZYGOSITY_STATS.intercep FST_STATS.pval FST_STATS.rsq FST_STATS.slope 0.3 -15 **-**0.0 -0.2 -10 -0.1 --0.5 **-**0 -0.0 TEROZYGOSITY_STATS.mean_mid_ FEROZYGOSITY_STATS.mean_high TEROZYGOSITY_STATS.mean_low_ HETEROZYGOSITY_STATS.pval 0.30 1.00 -0.3 -0.25 -0.75 0.20 -0.2 -0.50 0.15 -0.25 -0.10 0.1 -0.00 0.05 -HETEROZYGOSITY_STATS.rsq HETEROZYGOSITY_STATS.slope TWO_REG_MODEL.breakpoint TWO_REG_MODEL.diffLL 500 -25 -400 -9 . 300 -0 -6 -200 -

100 -

0 -

1.6

2.0

2.4

2.8

3.2

25

20 -

15

10

5 -

0 -

10 -

5 **-**

16

12 -

8 -

value

0.003 -

0.002 -

0.001 -

0.000 -

0.3 -

0.2 -

0.1 -

0.6 -

0.4

0.2 -

0.0 -

1.6

2.0

2.4

2.8

–25 **-**

–50 **-**

1.6

2.0

3.2

2.8

3.2

longmean

1.6

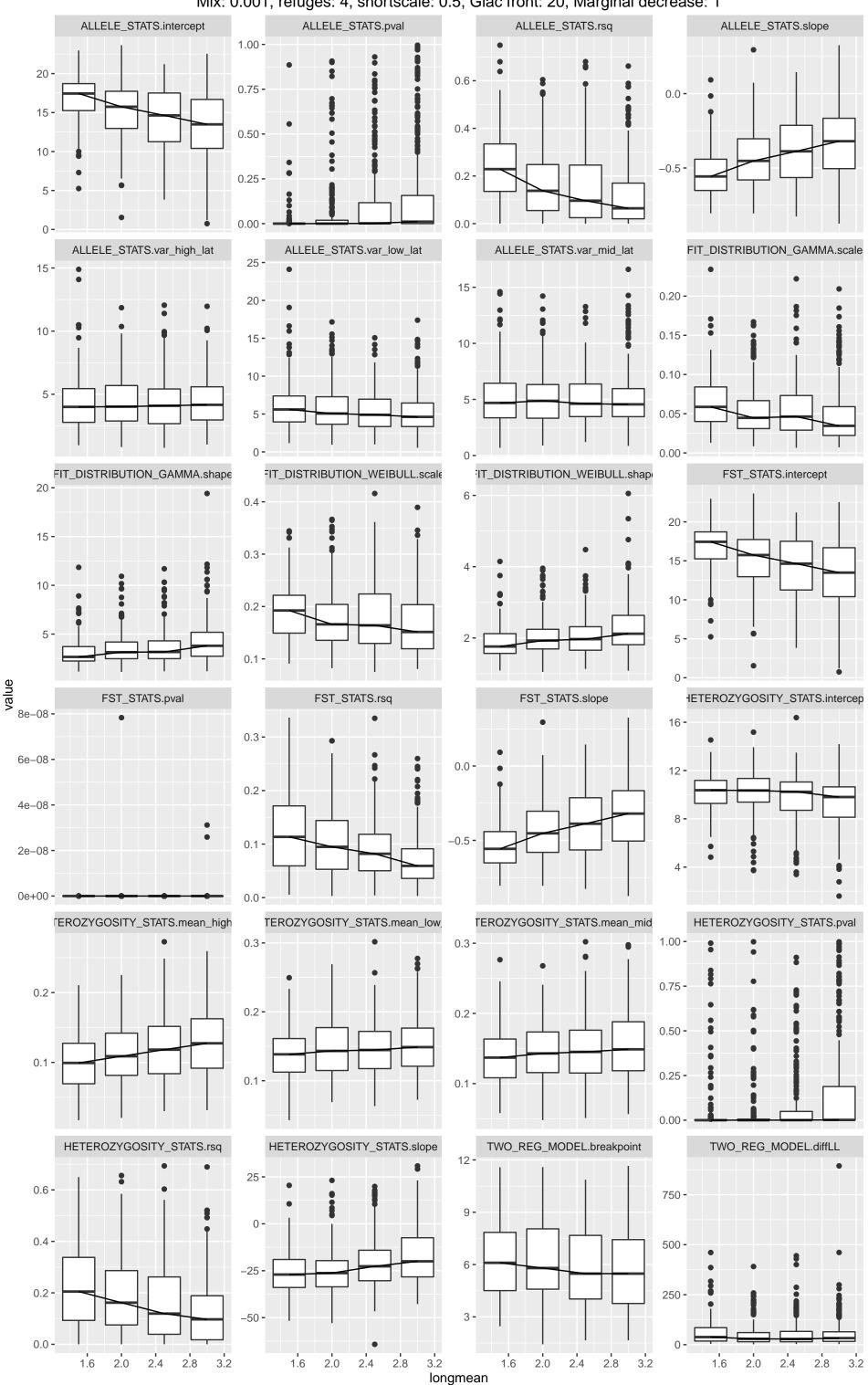
2.0

2.4

2.8

3.2

Mix: 0.001, refuges: 4, shortscale: 0.5, Glac front: 20, Marginal decrease: 1



Mix: 0.001, refuges: 5, shortscale: 0.5, Glac front: 20, Marginal decrease: 1 ALLELE_STATS.pval ALLELE_STATS.intercept ALLELE_STATS.rsq ALLELE_STATS.slope 0.4 1.00 -0.6 20 -0.75 -0.0 15**-**0.4 0.50 10--0.4 -0.2 -0.25 -5. 0.0 0 -0.00 ALLELE_STATS.var_high_lat ALLELE_STATS.var_low_lat ALLELE_STATS.var_mid_lat FIT_DISTRIBUTION_GAMMA.scale 15 **-**0.20 -20 -20 -0.15 -15 -10 -0.10 -10 -10 -0.05 0.00 -FIT_DISTRIBUTION_GAMMA.shape FIT_DISTRIBUTION_WEIBULL.scale FIT_DISTRIBUTION_WEIBULL.shape FST_STATS.intercept 16 -6 0.4 20 12 15 0.3 -8 -10 -0.2 -5 · value value o.5 HETEROZYGOSITY_STATS.intercept FST_STATS.pval FST_STATS.rsq FST_STATS.slope 0.4 15 -0.4 -0.3 -0.0 0.3 -10 -0.2 -0.2 --0.4 **-**0.1 --0.8 0.0 -0.0 0 TEROZYGOSITY_STATS.mean_high TEROZYGOSITY_STATS.mean_low_ TEROZYGOSITY_STATS.mean_mid_ HETEROZYGOSITY_STATS.pval 1.00 -0.3 -0.3 -0.3 0.75 -0.2 -0.2 -0.2 -0.50 0.25 -0.1 -0.00 -TWO_REG_MODEL.breakpoint TWO_REG_MODEL.diffLL HETEROZYGOSITY_STATS.slope HETEROZYGOSITY_STATS.rsq 12 -750 -0.6 -20 9 -0 -500 -0.4 --20 **-**250 -0.2 --40 **-**

3.2

longmean

1.6

2.0

2.4

2.8

3.2

1.6

2.0

2.4

2.8

3.2

0.0 -

1.6

2.0

2.4

2.8

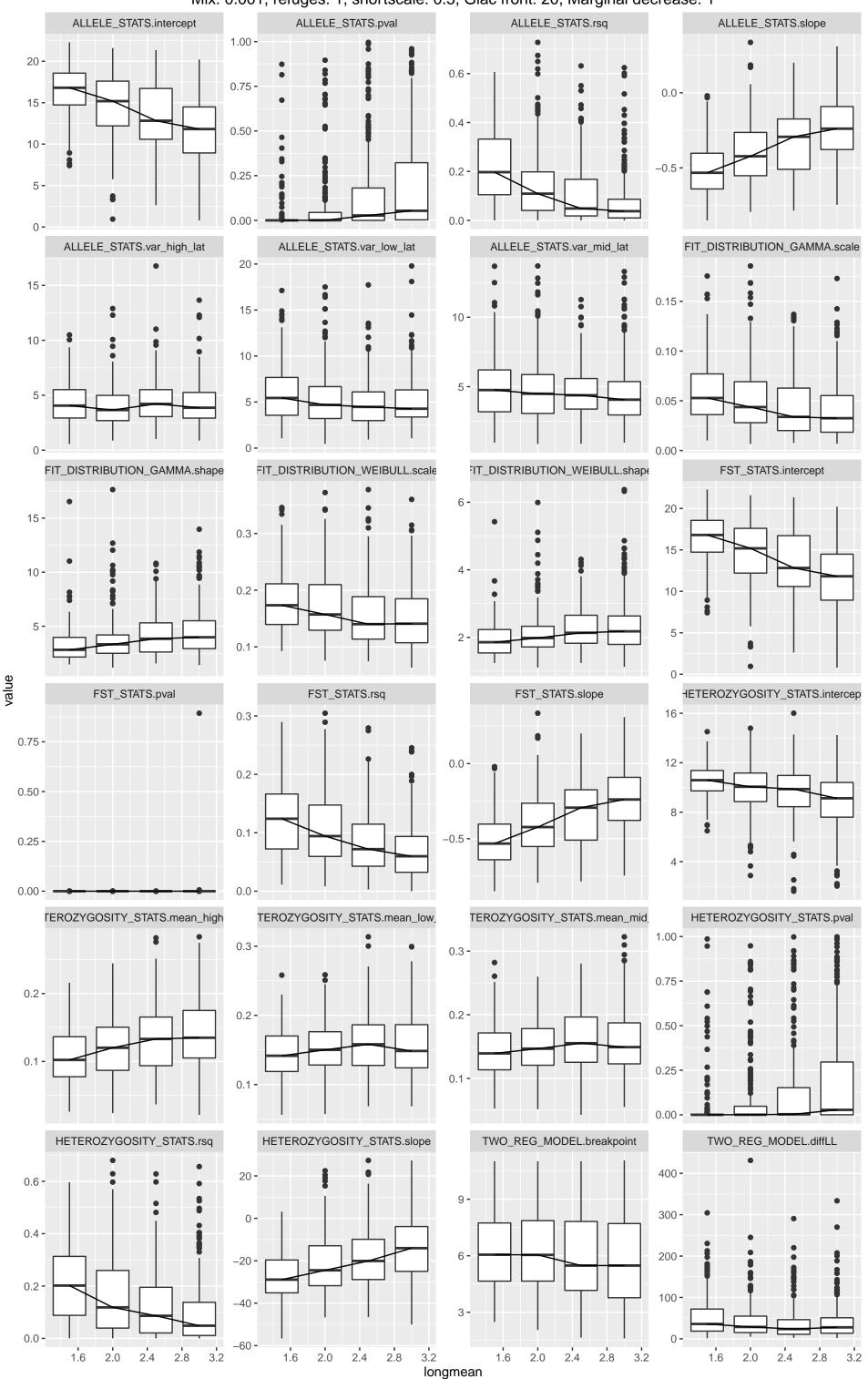
3.2

1.6

2.0

2.4

Mix: 0.001, refuges: 1, shortscale: 0.5, Glac front: 20, Marginal decrease: 1



Mix: 0.15, refuges: 2, shortscale: 0.5, Glac front: 20, Marginal decrease: 1 ALLELE_STATS.intercept ALLELE_STATS.pval ALLELE_STATS.rsq ALLELE_STATS.slope 0.3 1.00 -0.6 0.0 0.75 -0.4 -0.50 --0.30.2 0.25 --0.6 0.00 -0.0 ALLELE_STATS.var_high_lat ALLELE_STATS.var_low_lat ALLELE_STATS.var_mid_lat FIT_DISTRIBUTION_GAMMA.scale 0.3 -20 -15 -15 -0.2 10 -10 -0.1 -0.0 -FIT_DISTRIBUTION_GAMMA.shape FIT_DISTRIBUTION_WEIBULL.scale IT_DISTRIBUTION_WEIBULL.shap FST_STATS.intercept 0.4 -20 -6 -0.3 -15 10 -0.2 -IETEROZYGOSITY_STATS.intercep FST_STATS.pval FST_STATS.rsq FST_STATS.slope 0.3 16 -0.3 -0.0 12 -0.2 --0.38 -0.1 --0.6 0.0 -EROZYGOSITY_STATS.mean_high FEROZYGOSITY_STATS.mean_low FEROZYGOSITY_STATS.mean_mid HETEROZYGOSITY_STATS.pval 1.00 0.3 -0.3 -0.75 0.2 -0.2 -0.50 0.25 0.1 0.1 HETEROZYGOSITY_STATS.rsq TWO_REG_MODEL.breakpoint HETEROZYGOSITY_STATS.slope TWO_REG_MODEL.diffLL 500 -20 -400 -9 300 --20 **-**200 -

100 -

0 -

1.6

2.0

2.4

2.8

3.2

20 -

15 **-**

10 -

5 -

10-

16 -

12 -

value value

0.00020 -

0.00015 -

0.00010 -

0.00005 -

0.00000 -

0.3 -

0.2 -

0.1 -

0.0 -

0.6 -

0.4

0.2

0.0 -

1.6

2.0

2.4

2.8

3.2

-40 **-**

1.6

2.0

2.4

2.8

3.2

longmean

1.6

2.0

2.4

2.8

Mix: 0.15, refuges: 3, shortscale: 0.5, Glac front: 20, Marginal decrease: 1 ALLELE_STATS.intercept ALLELE_STATS.pval ALLELE_STATS.rsq ALLELE_STATS.slope 1.00 -0.6 -0.75 -0.0 -0.4 -0.50 -0.2 -0.5 **-**0.25 -0.00 -0.0 -ALLELE_STATS.var_high_lat ALLELE_STATS.var_low_lat ALLELE_STATS.var_mid_lat FIT_DISTRIBUTION_GAMMA.scale 16 -0.20 -20 -12 -0.15 8 . 0.10 -10-0.05 0.00 FIT_DISTRIBUTION_GAMMA.shape FIT_DISTRIBUTION_WEIBULL.scale IT_DISTRIBUTION_WEIBULL.shape FST_STATS.intercept 25 0.4 -6 **-**20 0.3 -15 10 -0.2 -5 -0 -FST_STATS.pval FST_STATS.rsq FST_STATS.slope HETEROZYGOSITY_STATS.intercep 0.3 -15 **-**0.0 -0.2 -10 -0.1 --0.5 **-**0 -0.0 -TEROZYGOSITY_STATS.mean_mid_ FEROZYGOSITY_STATS.mean_high TEROZYGOSITY_STATS.mean_low_ HETEROZYGOSITY_STATS.pval 0.30 1.00 -0.3 -0.25 -0.75 0.20 -0.2 -0.50 0.15 -0.25 -0.10 0.1 -0.00 0.05 -HETEROZYGOSITY_STATS.rsq HETEROZYGOSITY_STATS.slope TWO_REG_MODEL.diffLL TWO_REG_MODEL.breakpoint 500 -25 -400 -9 . 300 -0 -6 -200 -–25 **-**

100 -

0 -

1.6

2.0

2.4

2.8

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25

20 -

15

10

5 -

0 -

10 -

5 **-**

16

12 -

8 -

value

0.003 -

0.002 -

0.001 -

0.000 -

0.3 -

0.2 -

0.1 -

0.6 -

0.4

0.2 -

0.0 -

1.6

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–50 **-**

1.6

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3.2

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longmean

1.6

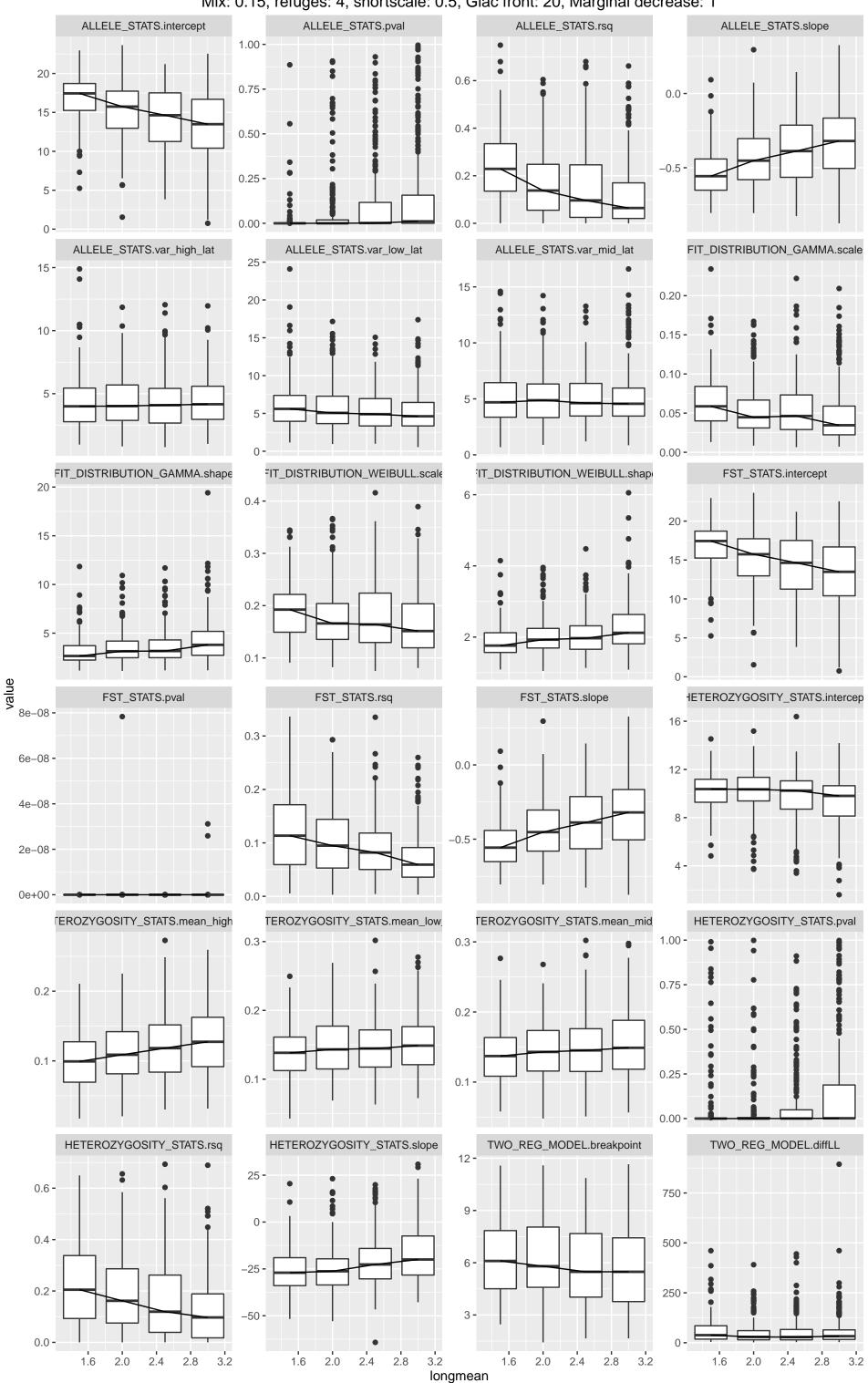
2.0

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Mix: 0.15, refuges: 4, shortscale: 0.5, Glac front: 20, Marginal decrease: 1



Mix: 0.15, refuges: 5, shortscale: 0.5, Glac front: 20, Marginal decrease: 1 ALLELE_STATS.pval ALLELE_STATS.intercept ALLELE_STATS.rsq ALLELE_STATS.slope 0.4 1.00 -0.6 20 -0.75 -0.0 15**-**0.4 0.50 10--0.4 **-**0.2 -0.25 -5. 0.0 0 -0.00 ALLELE_STATS.var_high_lat ALLELE_STATS.var_low_lat ALLELE_STATS.var_mid_lat FIT_DISTRIBUTION_GAMMA.scale 15 **-**0.20 -20 -20 -0.15 -15 -10 -0.10 -10 -10 -0.05 0.00 -FIT_DISTRIBUTION_GAMMA.shape FIT_DISTRIBUTION_WEIBULL.scale FIT_DISTRIBUTION_WEIBULL.shape FST_STATS.intercept 16 -6 0.4 20 12 15 0.3 -8 -10 -0.2 -5 · value value o.5 HETEROZYGOSITY_STATS.intercept FST_STATS.pval FST_STATS.rsq FST_STATS.slope 0.4 15 -0.4 -0.3 -0.0 0.3 -10 -0.2 -0.2 --0.4 **-**0.1 --0.8 0.0 -0.0 0 TEROZYGOSITY_STATS.mean_high TEROZYGOSITY_STATS.mean_low_ TEROZYGOSITY_STATS.mean_mid_ HETEROZYGOSITY_STATS.pval 1.00 -0.3 -0.3 -0.3 0.75 -0.2 -0.2 -0.2 -0.50 0.25 -0.1 -0.00 -TWO_REG_MODEL.breakpoint TWO_REG_MODEL.diffLL HETEROZYGOSITY_STATS.slope HETEROZYGOSITY_STATS.rsq 12 -750 -0.6 -20 9 -0 -500 -0.4 --20 **-**250 -0.2 --40 **-**

longmean

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2.4

2.8

3.2

1.6

2.0

2.4

Mix: 0.15, refuges: 1, shortscale: 0.5, Glac front: 20, Marginal decrease: 1 ALLELE_STATS.intercept ALLELE_STATS.pval ALLELE_STATS.rsq ALLELE_STATS.slope 1.00 -0.6 -0.75 -0.0 -0.4 -0.50 -0.5 **-**0.2 0.25 0.00 -0.0 -ALLELE_STATS.var_low_lat ALLELE_STATS.var_mid_lat FIT_DISTRIBUTION_GAMMA.scale 20 -0.15 15 10 -0.10 10 -0.05 0.00 FIT_DISTRIBUTION_WEIBULL.scale FIT_DISTRIBUTION_WEIBULL.shape FST_STATS.intercept 6 -20 0.3 15 0.2 -10 5 0.1 0 -FST_STATS.rsq FST_STATS.slope HETEROZYGOSITY_STATS.intercep 16 -0.3 -0.0 -12 -0.2 8 0.1 --0.5 **-**0.0 TEROZYGOSITY_STATS.mean_low_ TEROZYGOSITY_STATS.mean_mid_ HETEROZYGOSITY_STATS.pval 1.00 -0.3 -0.3 -0.75 0.2 -0.2 -0.50 0.25 0.1 -0.00 -TWO_REG_MODEL.breakpoint HETEROZYGOSITY_STATS.slope TWO_REG_MODEL.diffLL 400 -

