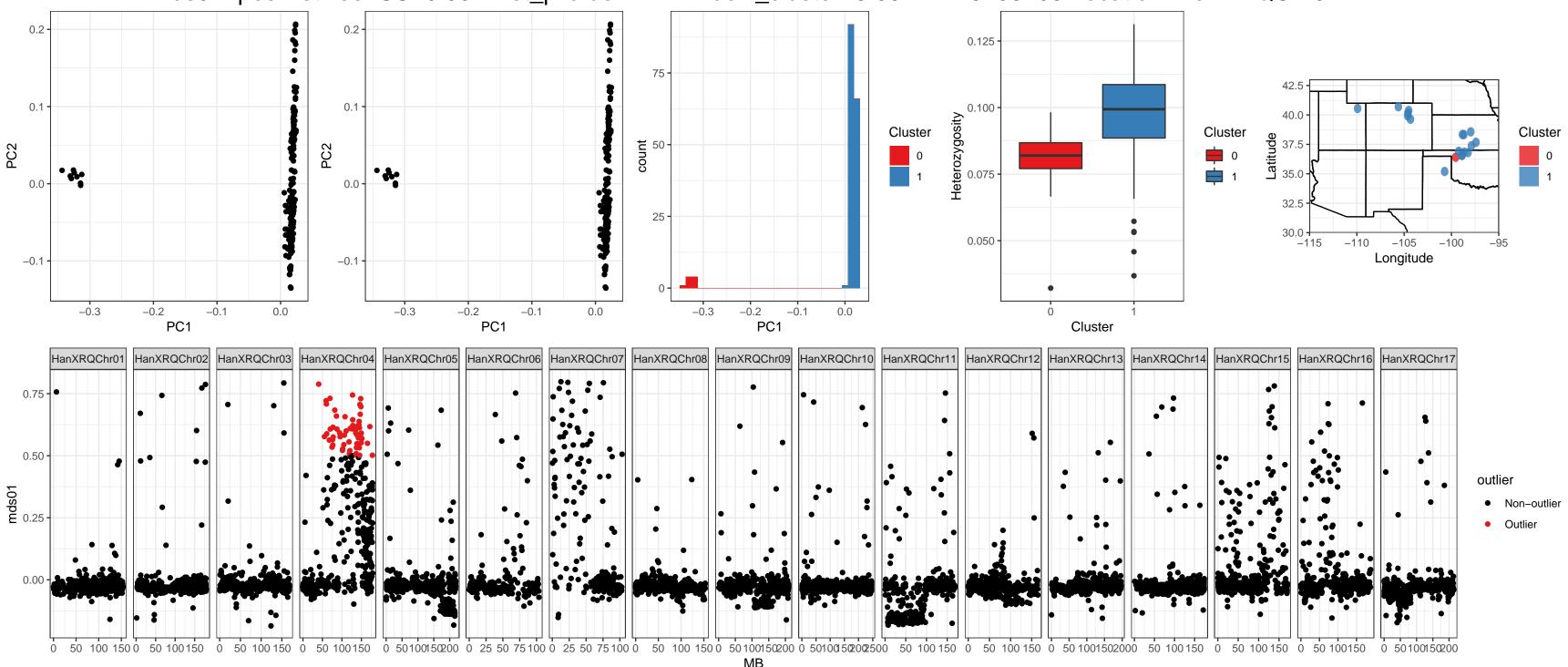
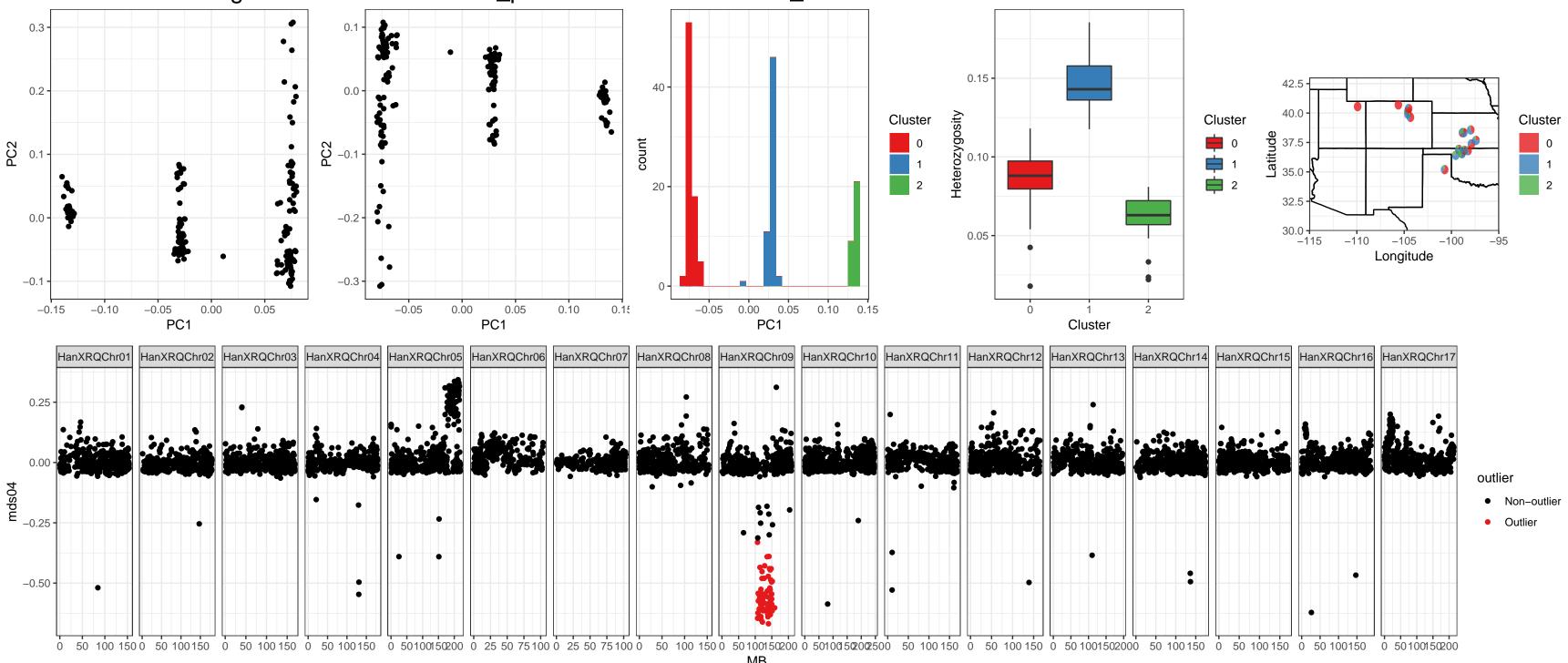
mds01-pos BetweenSS=0.997 Het_pvalue=NA Window_cluster=5.05172413793103 Location=HanXRQChr04:127MB



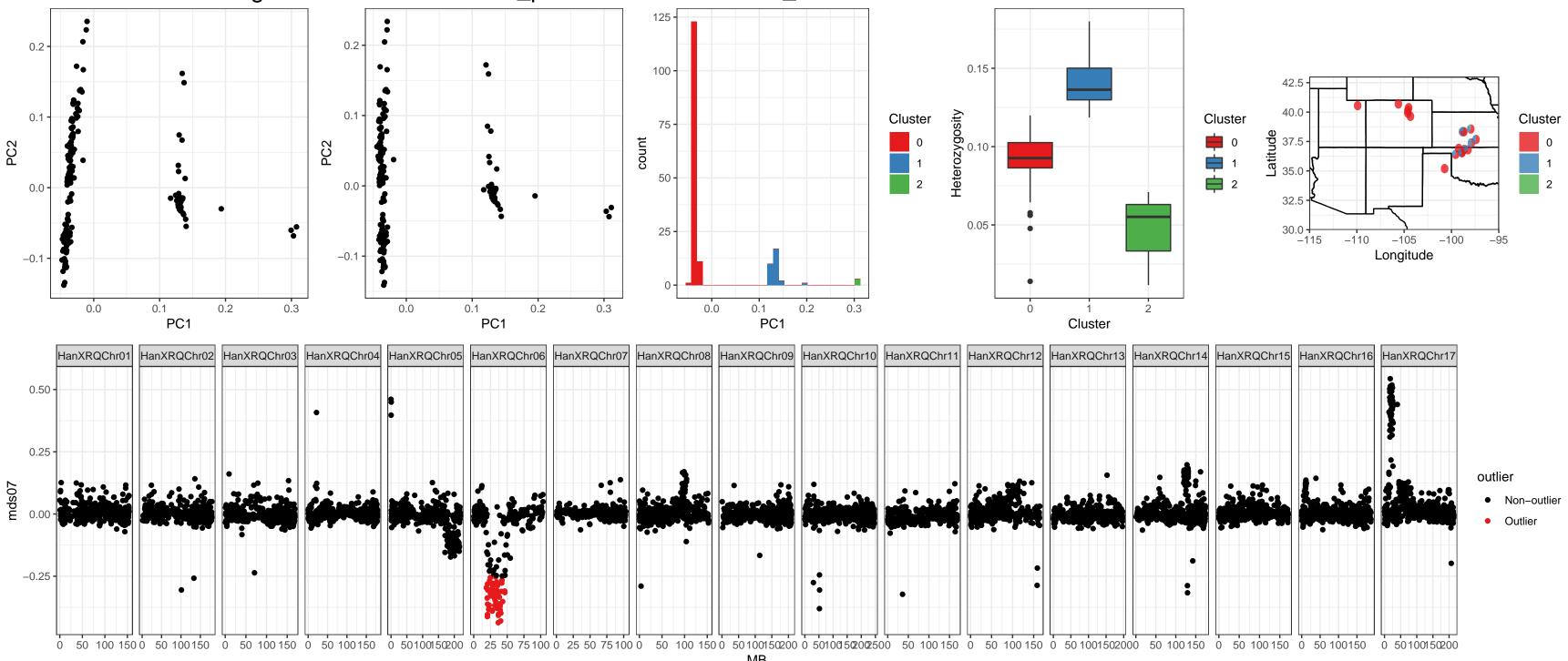
mds04-pos BetweenSS=0.992 Het_pvalue=2.13e-21 Window_cluster=9.2 Location=HanXRQChr05:212MB 0.1 0.15 Cluster Cluster Cluster 0.05 -115 -110 -105 -100 Longitude -0.3 **-**-0.10-0.050.05 -0.10 -0.050.00 0.05 0.10 -0.10 -0.05 0.00 0.05 PC1 PC1 PC1 Cluster HanXRQChr04 HanXRQChr05 HanXRQChr08 HanXRQChr10 HanXRQChr11 HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr15 HanXRQChr16 HanXRQChr17 0.25 40spu _{-0.25} 0 50 100 150 0 50 1

mds04-neg BetweenSS=0.996 Het_pvalue=3.17e-33 Window_cluster=1.95833333333333 Location=HanXRQChr09:136MB

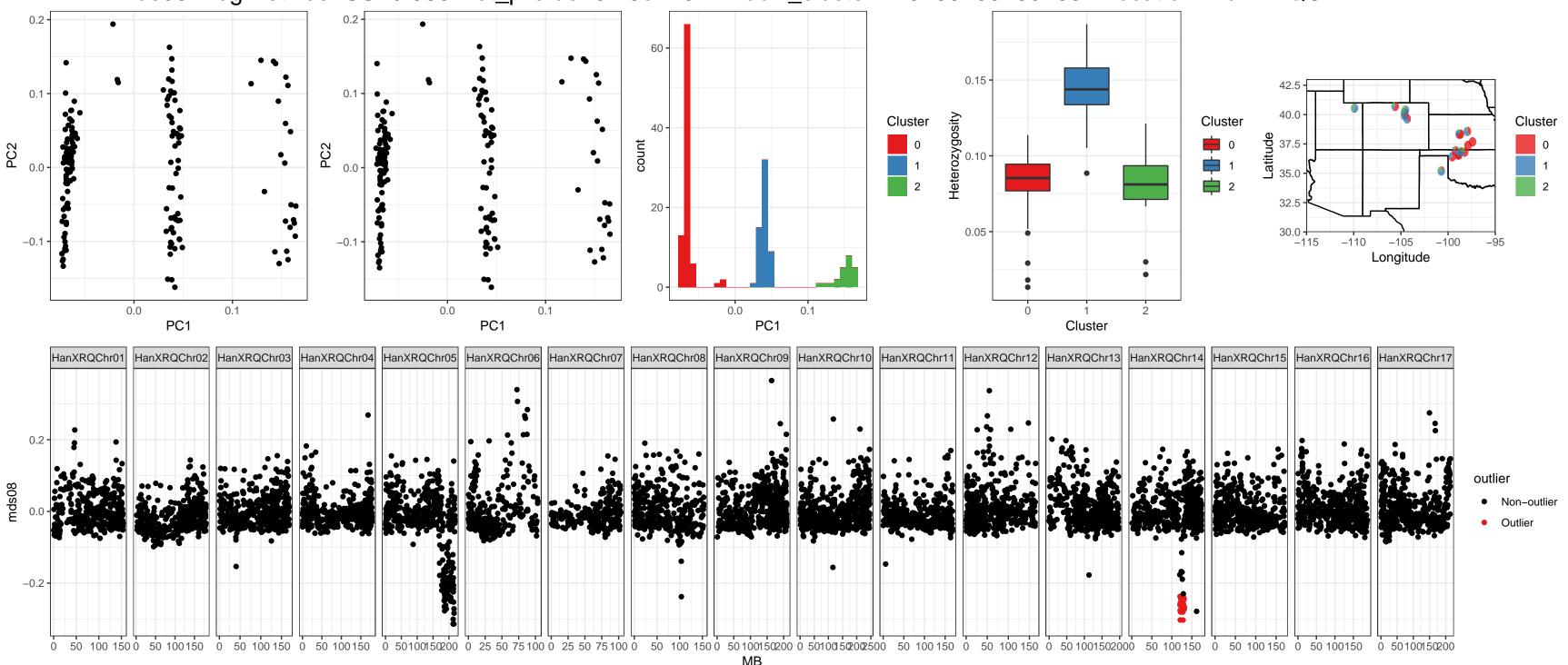


mds05-neg BetweenSS=0.995 Het_pvalue=4.84e-08 Window_cluster=4.390625 Location=HanXRQChr17:61MB 0.15 -Cluster Cluster Cluster PC2 0.05 -115 -105 -110 -100 Longitude -0.3-0.2PC1 PC1 PC1 Cluster HanXRQChr08 HanXRQChr12 HanXRQChr13 HanXRQChr14 mds05

mds07-neg BetweenSS=0.993 Het_pvalue=0.0294 Window_cluster=1.47457627118644 Location=HanXRQChr06:31MB

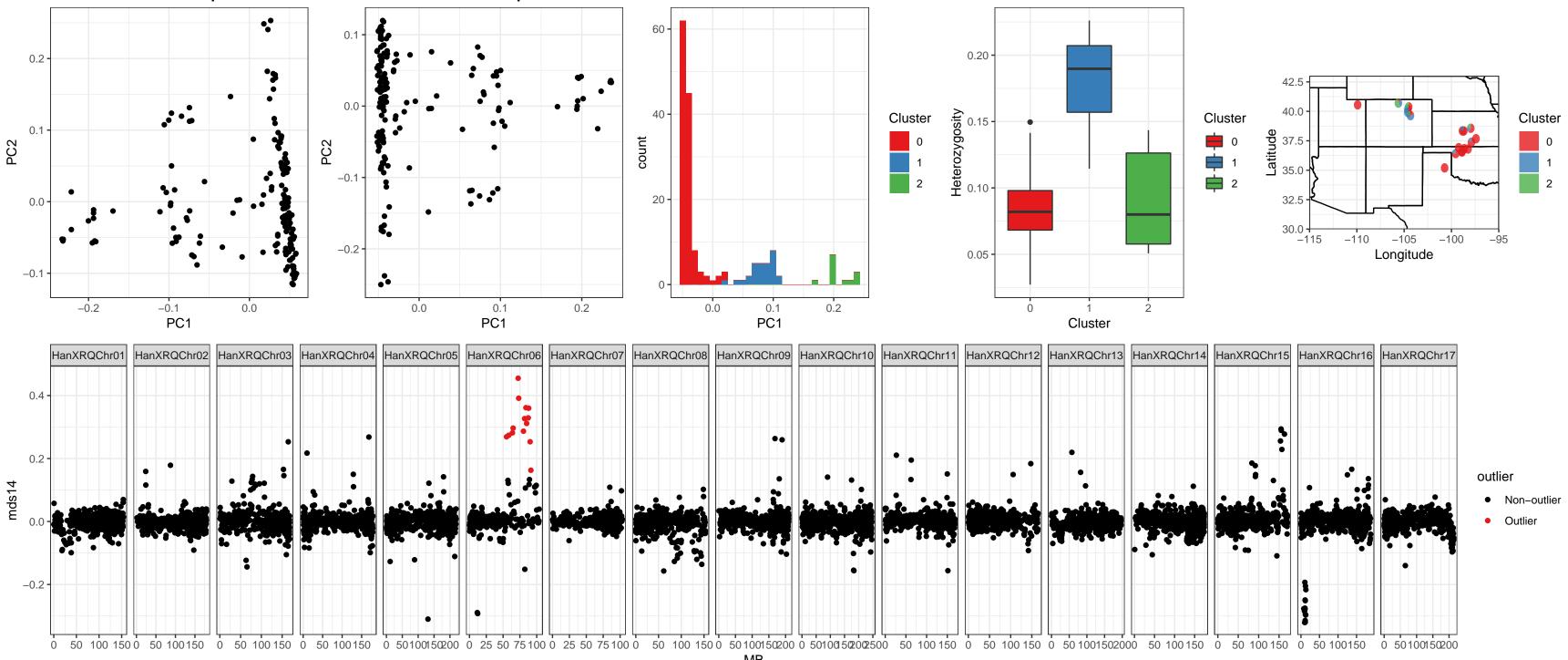


mds08-neg BetweenSS=0.988 Het_pvalue=9.78e-15 Window_cluster=1.51851851851852 Location=HanXRQChr14:127MB

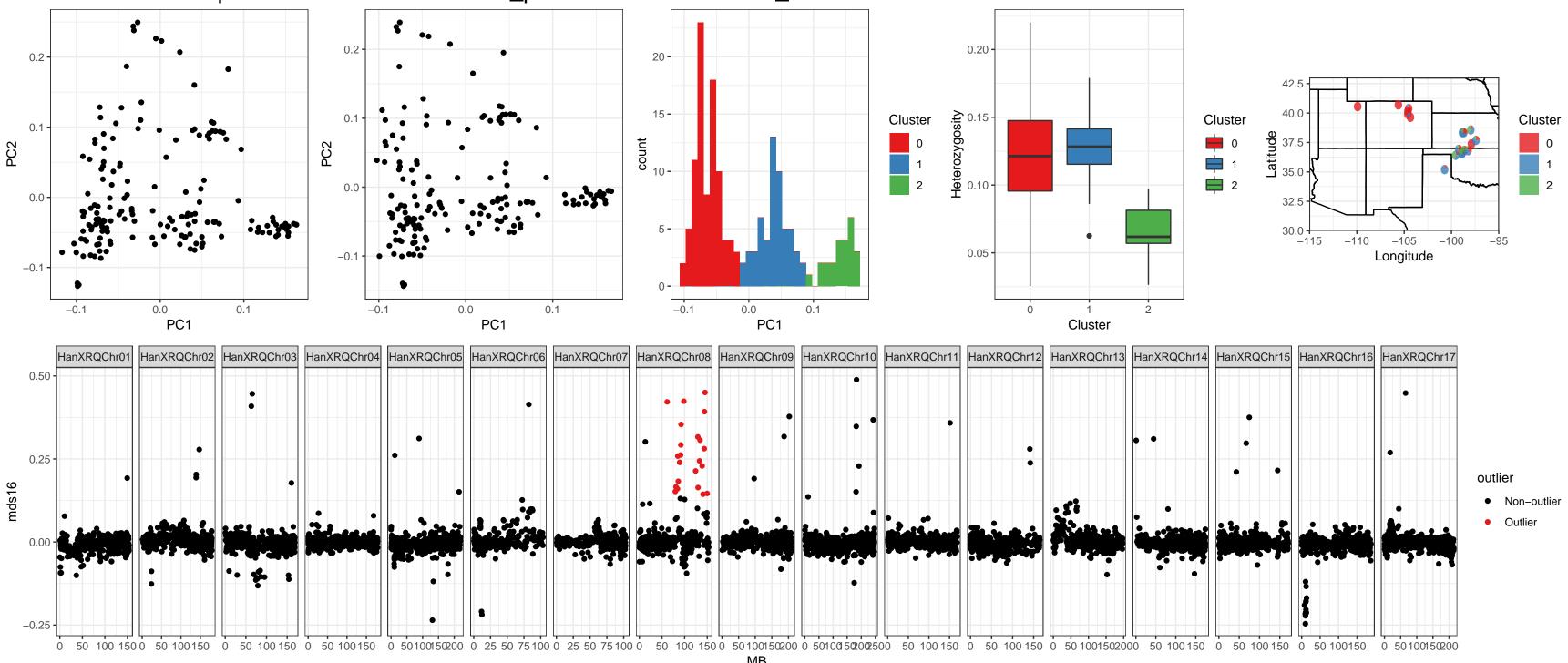


mds11-neg BetweenSS=0.985 Het_pvalue=3.97e-11 Window_cluster=7 Location=HanXRQChr02:79MB ••• 0.20 -Cluster Cluster -110 -105 0.05 Longitude PC1 PC1 PC1 Cluster HanXRQChr11 HanXRQChr12 HanXRQChr13 HanXRQChr14

mds14-pos BetweenSS=0.962 Het_pvalue=2.31e-08 Window_cluster=3.76923076923077 Location=HanXRQChr06:81MB

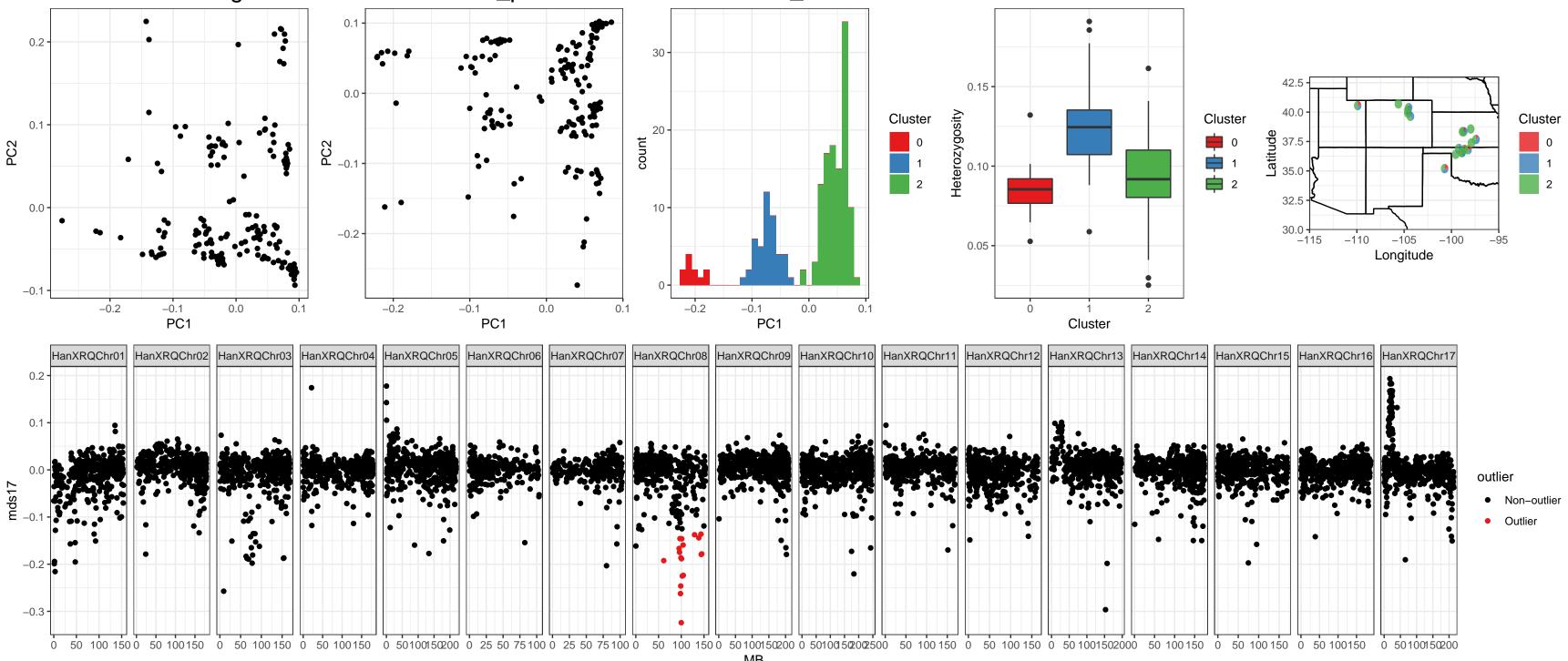


mds16-pos BetweenSS=0.933 Het_pvalue=0.0574 Window_cluster=7.66666666666666 Location=HanXRQChr08:111MB

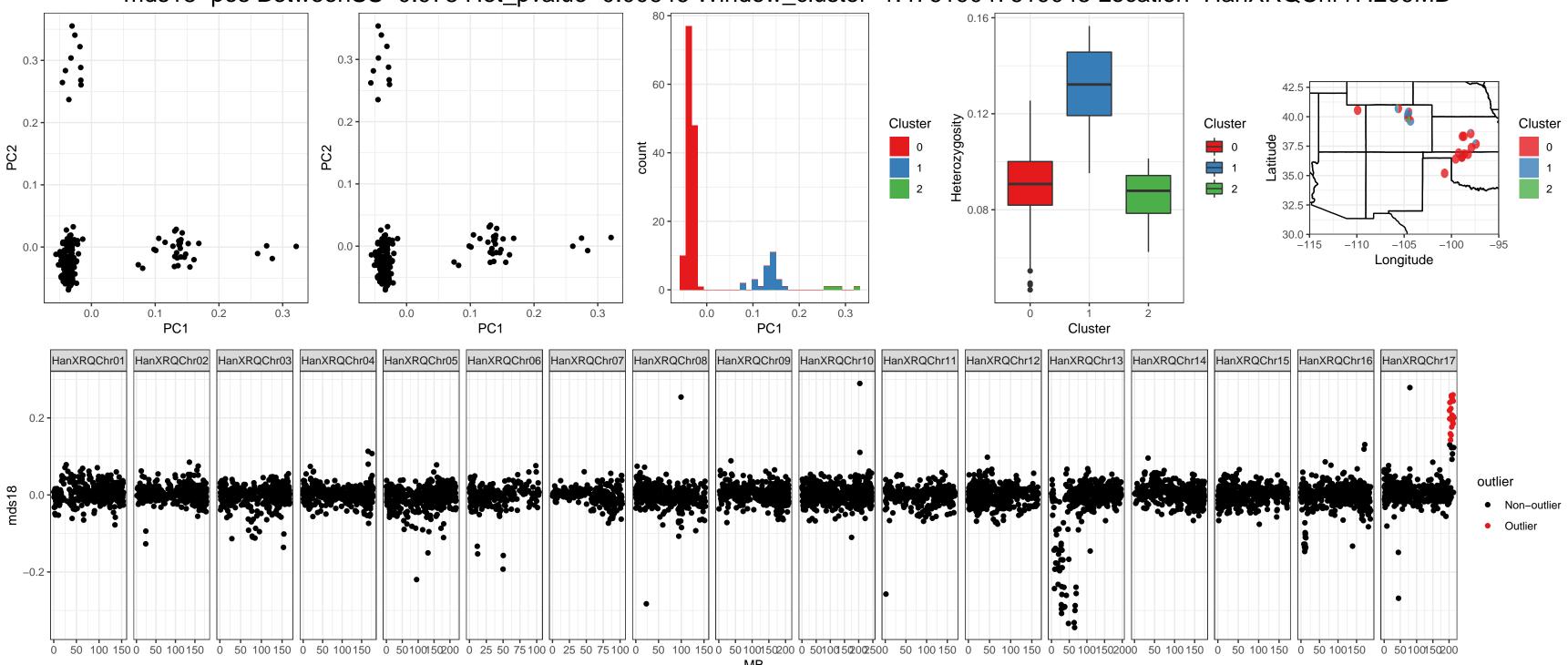


mds17-pos BetweenSS=0.994 Het_pvalue=5.08e-11 Window_cluster=2.6875 Location=HanXRQChr17:21MB 0.12 -Cluster 0.1 Cluster -110 -105 0.04 Longitude 0.1 PC1 PC1 PC1 Cluster

mds17-neg BetweenSS=0.939 Het_pvalue=2.97e-05 Window_cluster=9.05882352941176 Location=HanXRQChr08:101MB

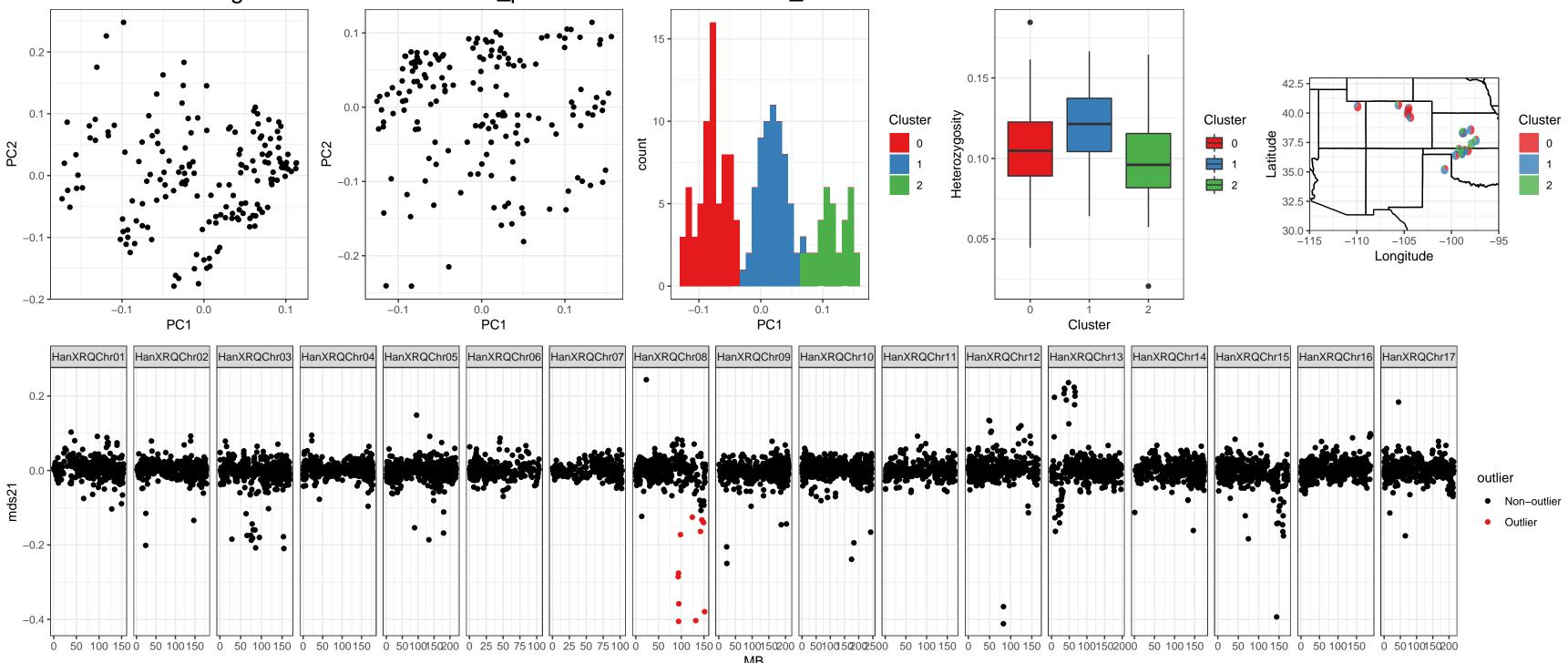


mds18-pos BetweenSS=0.978 Het_pvalue=0.00646 Window_cluster=1.47619047619048 Location=HanXRQChr17:209MB



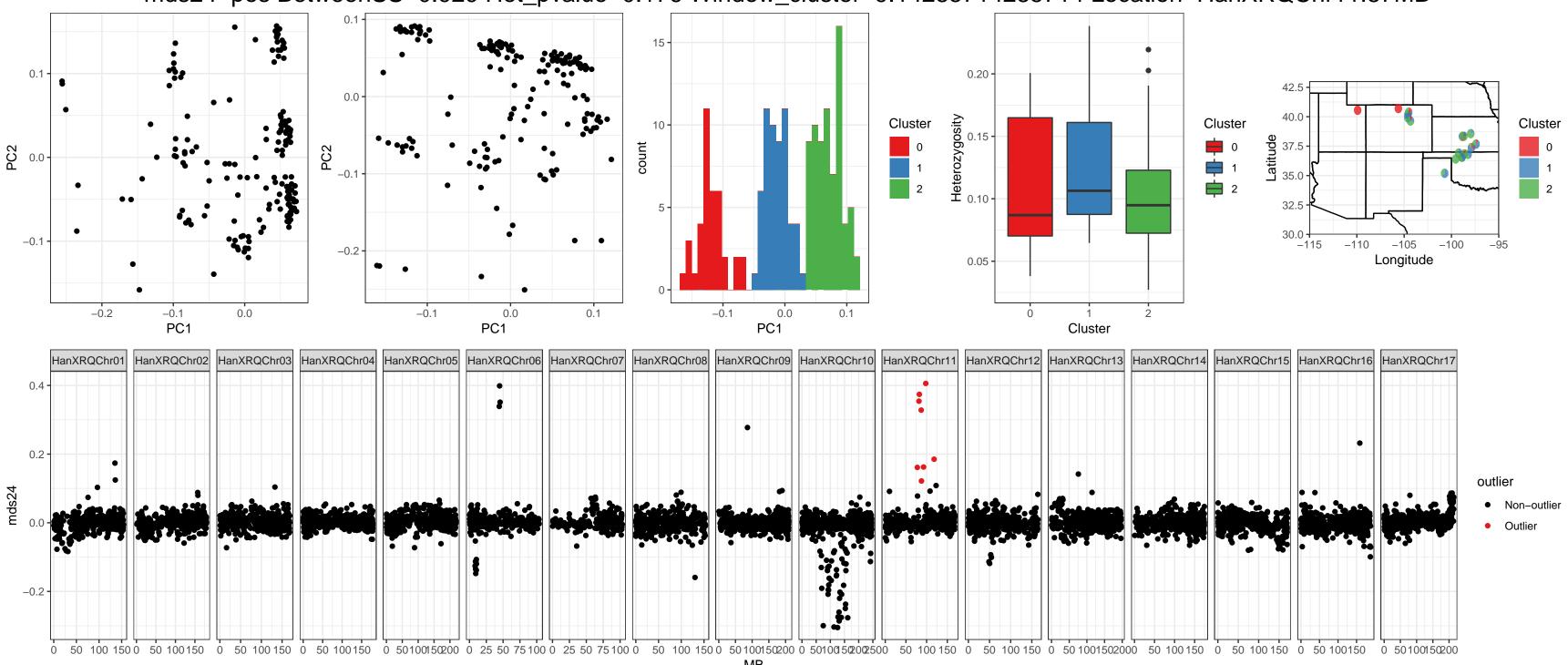
mds20-neg BetweenSS=0.97 Het_pvalue=6.14e-16 Window_cluster=23.2 Location=HanXRQChr03:80MB 0.20 Cluster Cluster Cluster 30.0 -115 -105 -110 Longitude 0.05 --0.05 0.00 0.05 0.10 PC1 PC1 PC1 Cluster HanXRQChr11 HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr15 HanXRQChr05 HanXRQChr06 HanXRQChr07 HanXRQChr08

mds21-neg BetweenSS=0.914 Het_pvalue=0.000343 Window_cluster=9.545454545454 Location=HanXRQChr08:128MB



mds23-neg BetweenSS=0.899 Het_pvalue=8.16e-10 Window_cluster=1.4444444444444 Location=HanXRQChr13:27MB Cluster Cluster -115 -110 -105 -0.2Longitude PC1 PC1 PC1 Cluster HanXRQChr11 HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr15 HanXRQChr05 HanXRQChr07 HanXRQChr08 HanXRQChr09 mds23

mds24-pos BetweenSS=0.929 Het_pvalue=0.176 Window_cluster=9.14285714285714 Location=HanXRQChr11:87MB



mds26-neg BetweenSS=0.951 Het_pvalue=4.36e-16 Window_cluster=6.375 Location=HanXRQChr12:124MB 0.1 0.20 -Cluster Cluster -115 -110 -105 -100 Longitude -0.2 **-**-0.050.00 0.05 0.10 -0.10 -0.05-0.10 -0.05 0.00 0.05 0.10 PC1 PC1 PC1 Cluster HanXRQChr05 HanXRQChr11 HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr15

mds27-pos BetweenSS=0.903 Het_pvalue=0.00164 Window_cluster=15 Location=HanXRQChr10:126MB 0.20 -Cluster Cluster -115 -110 -105 Longitude -0.10 -0.05 0.00 -0.10 -0.05 0.00 0.05 -0.10 -0.05 0.00 0.05 0.10 0.15 PC1 PC1 PC1 Cluster HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr15 outlier

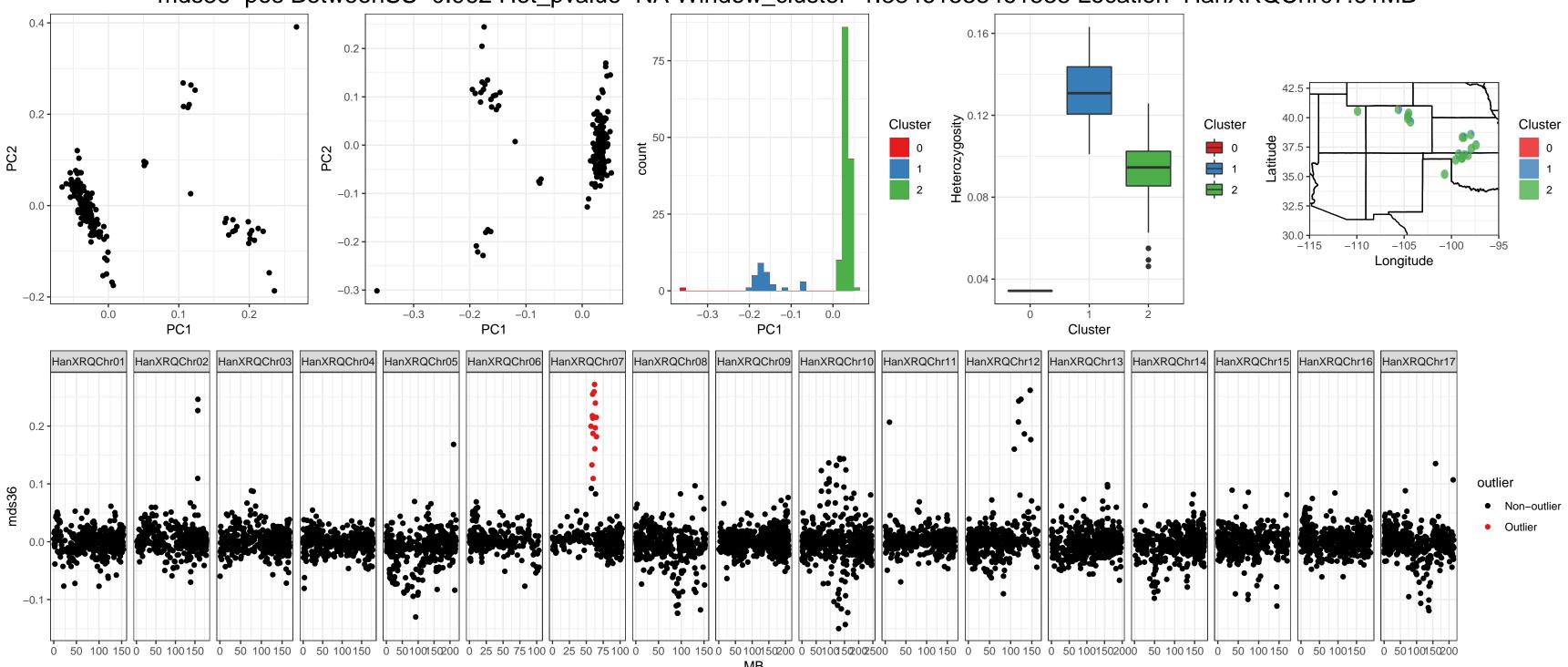
mds27-neg BetweenSS=0.875 Het_pvalue=0.00077 Window_cluster=3.17391304347826 Location=HanXRQChr09:85MB 10.0 0.15 -Cluster Cluster -115 -110 -105 Longitude PC1 PC1 PC1 Cluster

50 100 150 0 50 1001502000 50 100 150 0 50 100 150 0 50 100150 0 50 100150200

mds31-neg BetweenSS=0.956 Het_pvalue=0.000244 Window_cluster=3 Location=HanXRQChr09:99MB 0.20 0.1 Cluster Cluster 30.0 -115 -105 -110 Longitude -0.1PC1 PC1 PC1 Cluster HanXRQChr11 HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr15 HanXRQChr05 HanXRQChr06

mds35-neg BetweenSS=0.961 Het_pvalue=NA Window_cluster=11.3125 Location=HanXRQChr05:24MB Cluster Cluster -110 -105 Longitude -0.3 -0.4 -0.3 -0.2PC1 PC1 PC1 Cluster HanXRQChr11 HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr15 HanXRQChr05

mds36-pos BetweenSS=0.962 Het_pvalue=NA Window_cluster=1.38461538461538 Location=HanXRQChr07:61MB



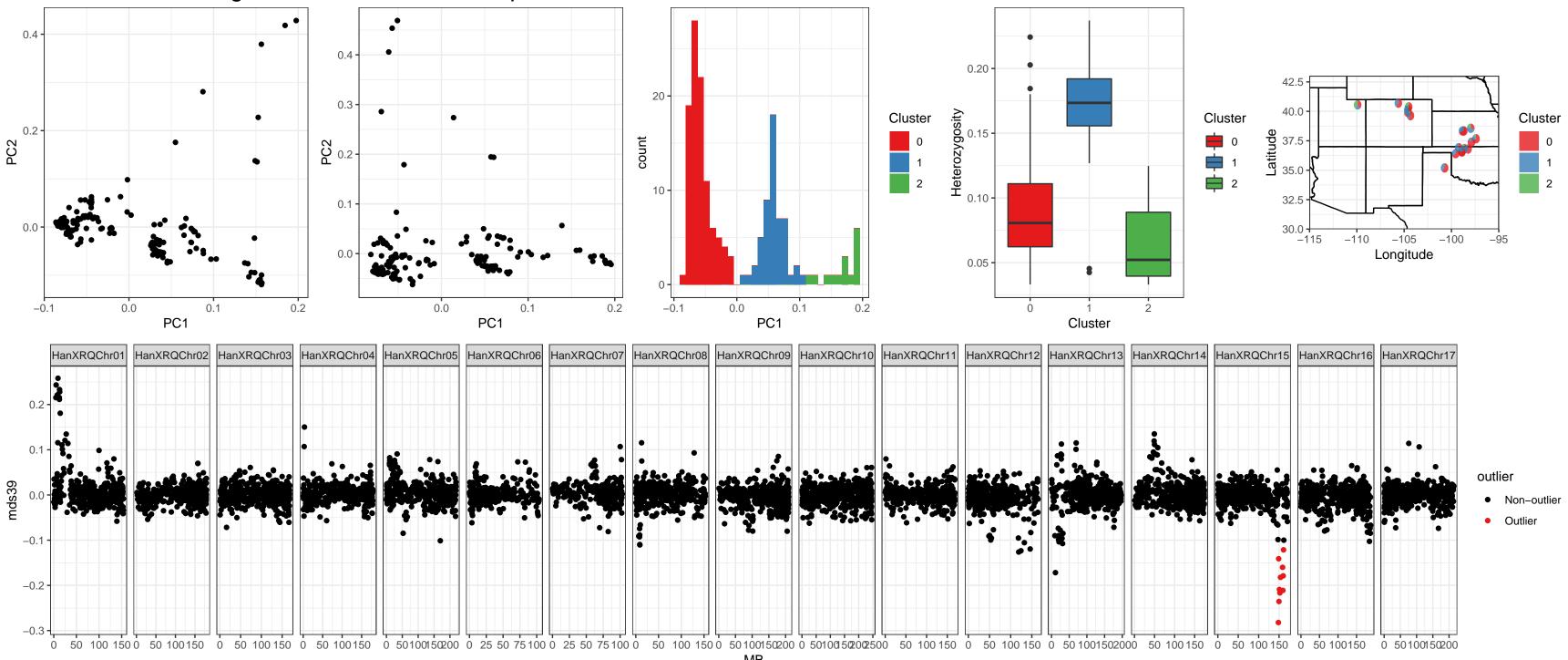
mds36-neg BetweenSS=0.943 Het_pvalue=2.07e-12 Window_cluster=13.6 Location=HanXRQChr10:134MB 0.20 Cluster Cluster -105 -115 -110 Longitude 0.05 -0.10.0 PC1 PC1 PC1 Cluster mds36

mds37-neg BetweenSS=0.91 Het_pvalue=1.13e-07 Window_cluster=10.6666666666666 Location=HanXRQChr03:39MB 0.20 Cluster Cluster 0.05 -115 -105 -110 Longitude -0.2 **-**-0.1-0.1PC1 PC1 PC1 Cluster mds37

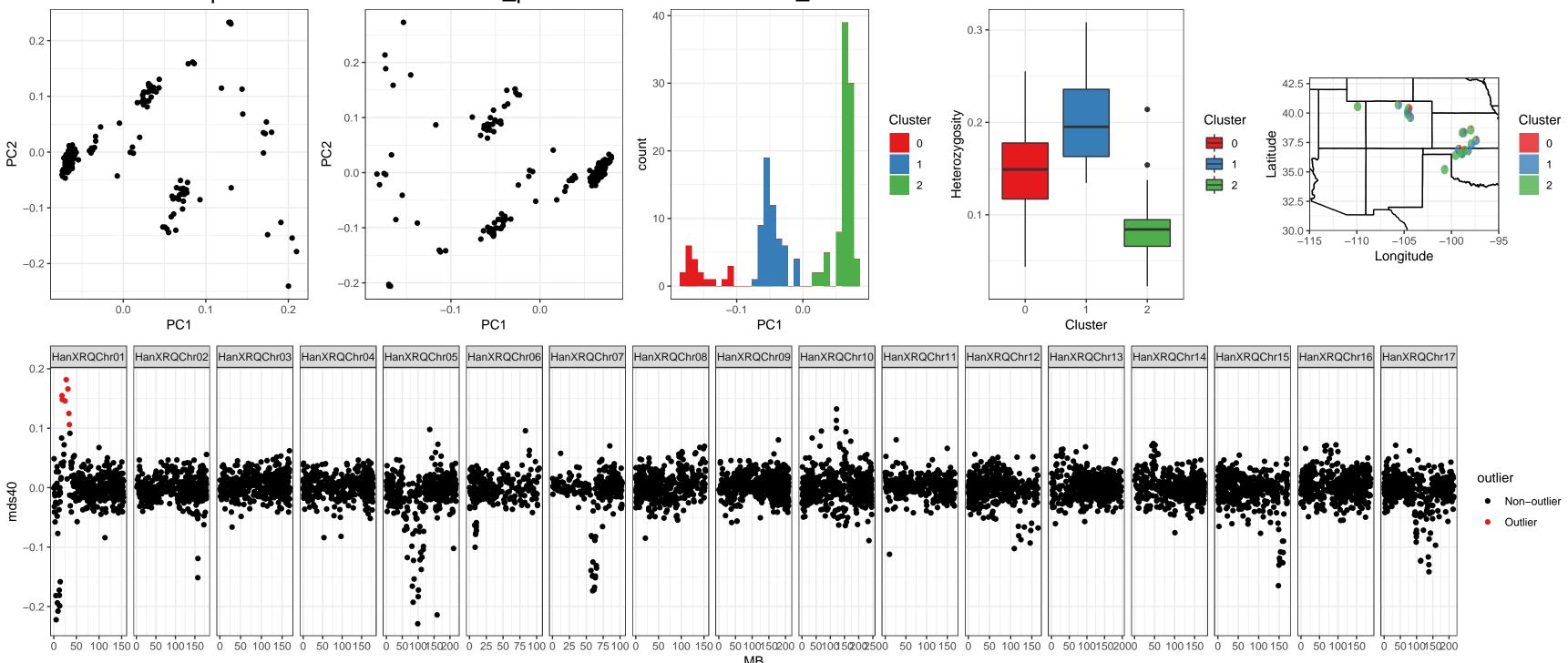
mds38-pos BetweenSS=0.991 Het_pvalue=2.77e-06 Window_cluster=2.4444444444444 Location=HanXRQChr01:11MB Cluster Cluster Cluster **2** -0.2 PC2 -0.2 -115 -110 -105 -100 Longitude -0.5 +0.2 0.0 0.1 PC1 PC1 PC1 Cluster HanXRQChr05 HanXRQChr06 HanXRQChr12 HanXRQChr13 HanXRQChr14 0.2

mds38-neg BetweenSS=0.915 Het_pvalue=1.27e-09 Window_cluster=11 Location=HanXRQChr10:131MB Cluster Cluster -115 -110 -105 Longitude -0.1-0.1 0.0 -0.1PC1 PC1 PC1 Cluster

mds39-neg BetweenSS=0.944 Het_pvalue=2.83e-10 Window_cluster=1.4444444444444 Location=HanXRQChr15:153MB



mds40-pos BetweenSS=0.961 Het_pvalue=8.59e-05 Window_cluster=1.83333333333333 Location=HanXRQChr01:28MB



mds40-neg BetweenSS=0.948 Het_pvalue=1.7e-05 Window_cluster=10.3076923076923 Location=HanXRQChr05:100MB

