mds02-neg BetweenSS=0.906 Het_pvalue=NA Window_cluster=5.27 Location=HanXRQChr09:122MB Cluster Cluster 30.0 + -115 -110 Longitude -0.05 PC1 PC1 PC1 Cluster

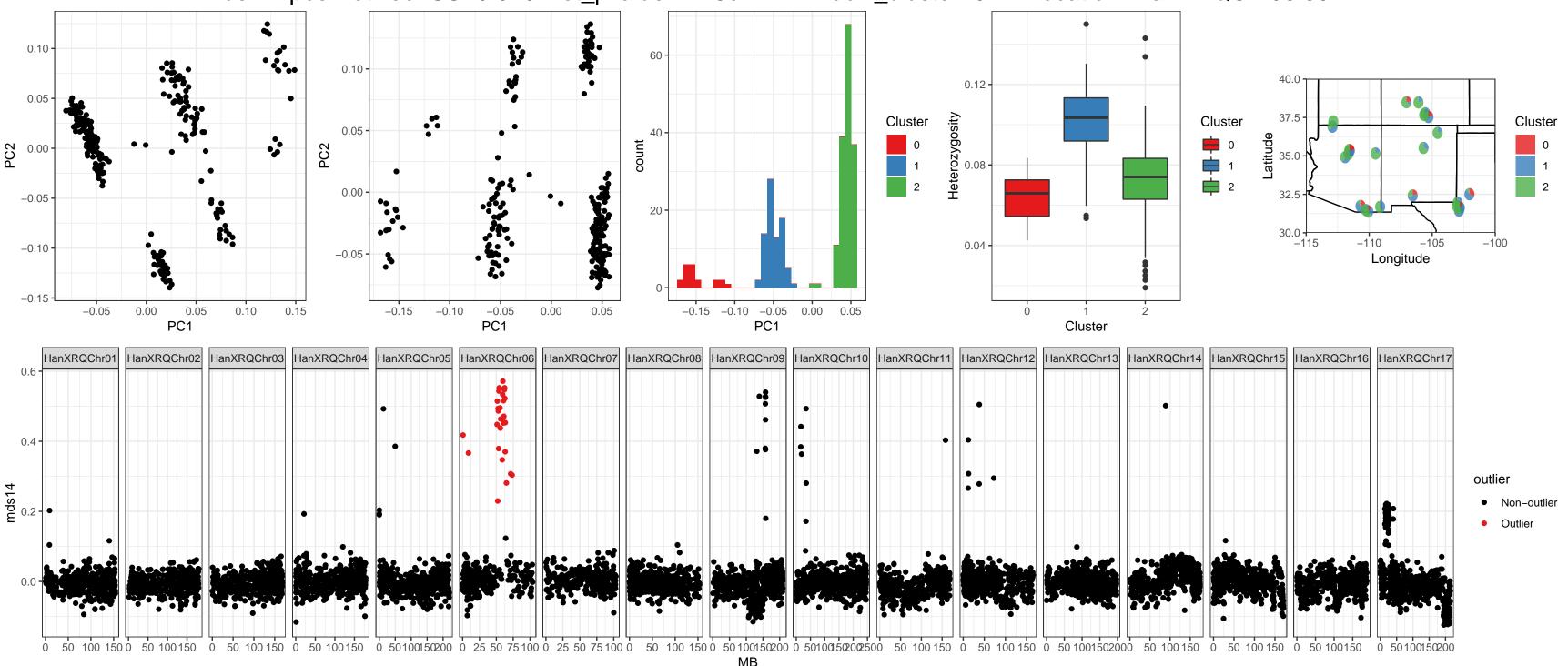
mds04-pos BetweenSS=0.982 Het_pvalue=0.0632 Window_cluster=3.97 Location=HanXRQChr14:135MB 0.05 0.100 Cluster Cluster count -0.05-0.100.025 -115 -110 Longitude 0.00 0.05 0.10 0.15 -0.15-0.10 -0.05 -0.15 -0.10 -0.05 0.00 0.05 PC1 PC1 PC1 Cluster HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr05 HanXRQChr10

mds07-neg BetweenSS=0.995 Het_pvalue=1.23e-30 Window_cluster=3.83 Location=HanXRQChr01:39MB 0.15 Cluster Cluster 25 --115 -110 Longitude -0.10-0.050.00 0.00 0.05 0.10 0.05 PC1 PC1 PC1 Cluster

mds13-pos BetweenSS=0.959 Het_pvalue=6.02e-05 Window_cluster=2.4 Location=HanXRQChr06:59MB 0.15 -Cluster -115 -110 Longitude -0.10 -0.05 0.00 -0.10 PC1 PC1 PC1 Cluster HanXRQChr12 HanXRQChr13 HanXRQChr14

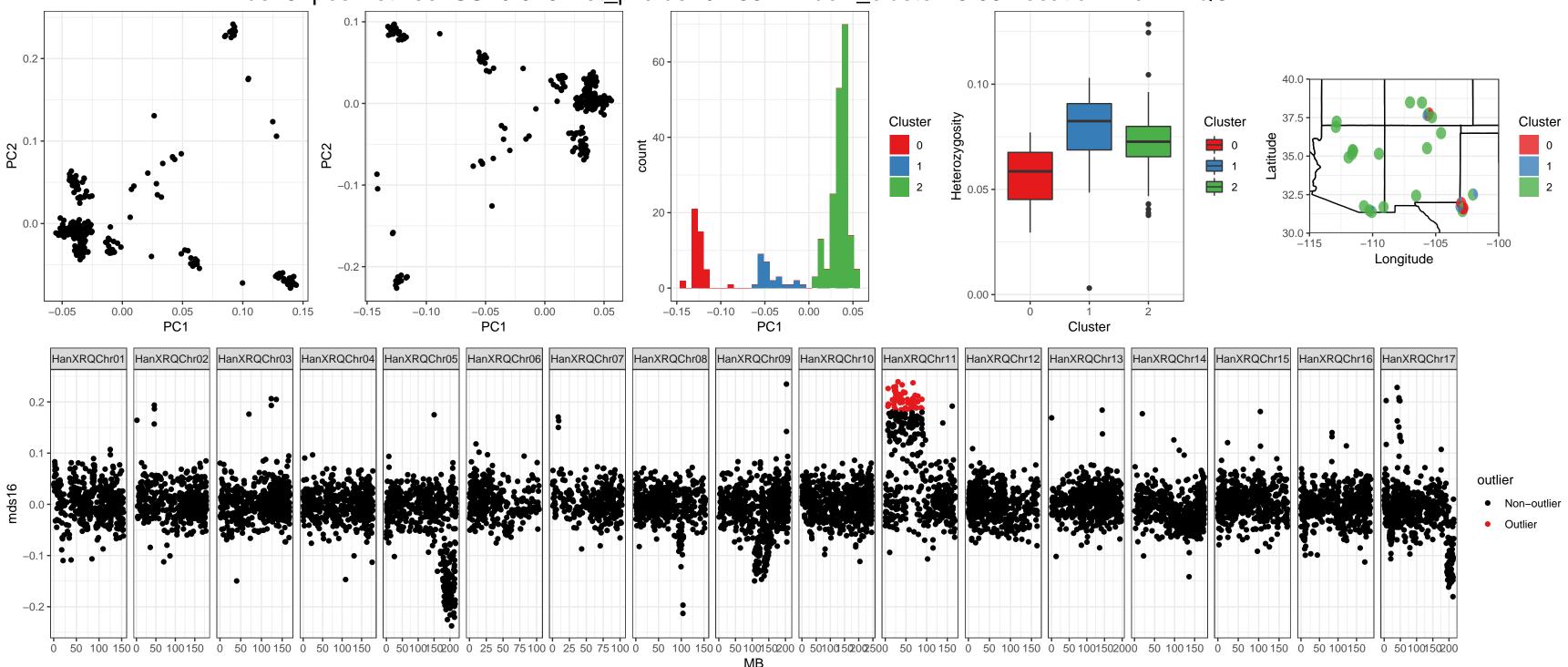
mds13-neg BetweenSS=0.913 Het_pvalue=NA Window_cluster=3.89 Location=HanXRQChr05:189MB 0.10 -0.10 -Cluster Cluster O.00 -0.00 --0.05 --115 -110 -0.10Longitude -0.10 **-**-0.2PC1 PC1 Cluster HanXRQChr12 HanXRQChr13 HanXRQChr14

mds14-pos BetweenSS=0.975 Het_pvalue=4.18e-14 Window_cluster=9.44 Location=HanXRQChr06:59MB



mds15-neg BetweenSS=0.967 Het_pvalue=0.433 Window_cluster=1.82 Location=HanXRQChr17:21MB 0.05 0.10 -Cluster Cluster -0.050.00 -0.10-115 -110Longitude -0.15 **-**0.00 -0.050.00 PC1 PC1 PC1 Cluster HanXRQChr12 HanXRQChr13 HanXRQChr14

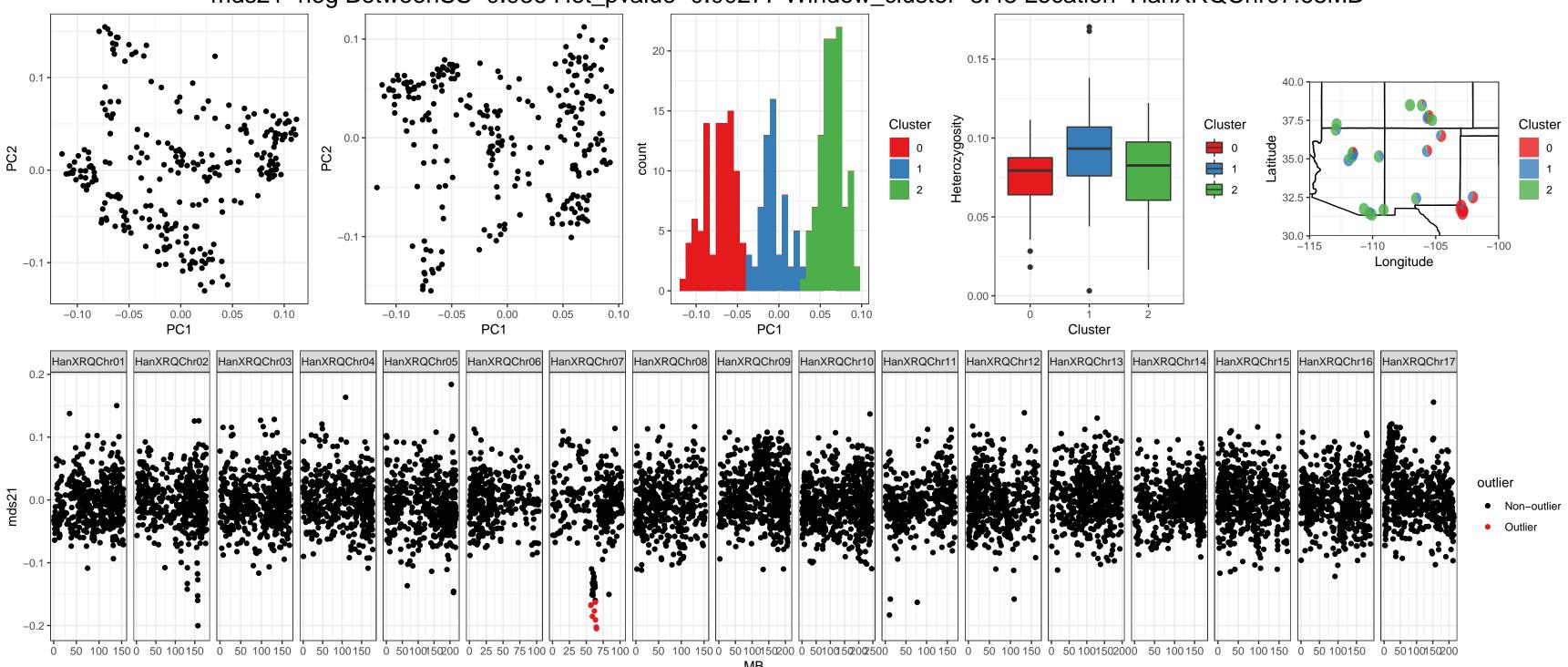
mds16-pos BetweenSS=0.975 Het_pvalue=0.288 Window_cluster=3.68 Location=HanXRQChr11:42MB



mds16-neg BetweenSS=0.938 Het_pvalue=0.107 Window_cluster=6 Location=HanXRQChr05:198MB 0.100 0.05 -Cluster Cluster -0.050.025 -115 -110 -0.10 -Longitude 0.000 -0.20 -0.15 -0.10 -0.05 0.00 PC1 PC1 Cluster HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr15 HanXRQChr05

mds19-neg BetweenSS=0.957 Het_pvalue=0.111 Window_cluster=4.76 Location=HanXRQChr07:61MB 0.10 0.05 Cluster Cluster -115 -110 -0.10Longitude -0.10 0.05 0.10 -0.10PC1 PC1 PC1 Cluster 91 -0.1

mds21-neg BetweenSS=0.936 Het_pvalue=0.00277 Window_cluster=3.43 Location=HanXRQChr07:63MB



mds24-neg BetweenSS=0.938 Het_pvalue=0.478 Window_cluster=3.62 Location=HanXRQChr09:136MB 0.10 -Cluster Cluster -115 -110 Longitude -0.05 -0.15 -0.10 -0.05 PC1 PC1 PC1 Cluster HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr15

mds27-neg BetweenSS=0.929 Het_pvalue=0.352 Window_cluster=5.67 Location=HanXRQChr17:201MB Cluster -115 -110 Longitude -0.10 -0.05 0.00 -0.05 0.05 0.10 PC1 PC1 PC1 Cluster HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr15 HanXRQChr16 HanXRQChr17

mds39-pos BetweenSS=0.964 Het_pvalue=0.992 Window_cluster=1.42 Location=HanXRQChr10:9MB 0.10 -0.09 0.05 Cluster Cluster -0.050.03 --115 -110 -0.10 **-**Longitude -0.15 -0.15 -0.10 -0.05 PC1 PC1 PC1 Cluster HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr15