mds03-pos BetweenSS=0.989 Het\_pvalue=3.91e-22 Window\_cluster=4.49 Location=HanXRQChr11:62MB 0.09 Cluster Cluster 0.00 0.03 30.0 -115 -110 -105 -0.05 Longitude -0.10 -0.050.00 -0.05 0.00 0.05 Cluster PC1 PC1 PC1 HanXRQChr08 HanXRQChr05 0.50 mds03

### mds04-pos BetweenSS=0.961 Het\_pvalue=0.771 Window\_cluster=67.8 Location=HanXRQChr12:20MB 0.10 -Cluster Cluster O.05 30.0 -115 -110 -105 Longitude 0.05 PC1 PC1 PC1 Cluster HanXRQChr05 HanXRQChr06 HanXRQChr07 HanXRQChr09 HanXRQChr10 HanXRQChr11 HanXRQChr12

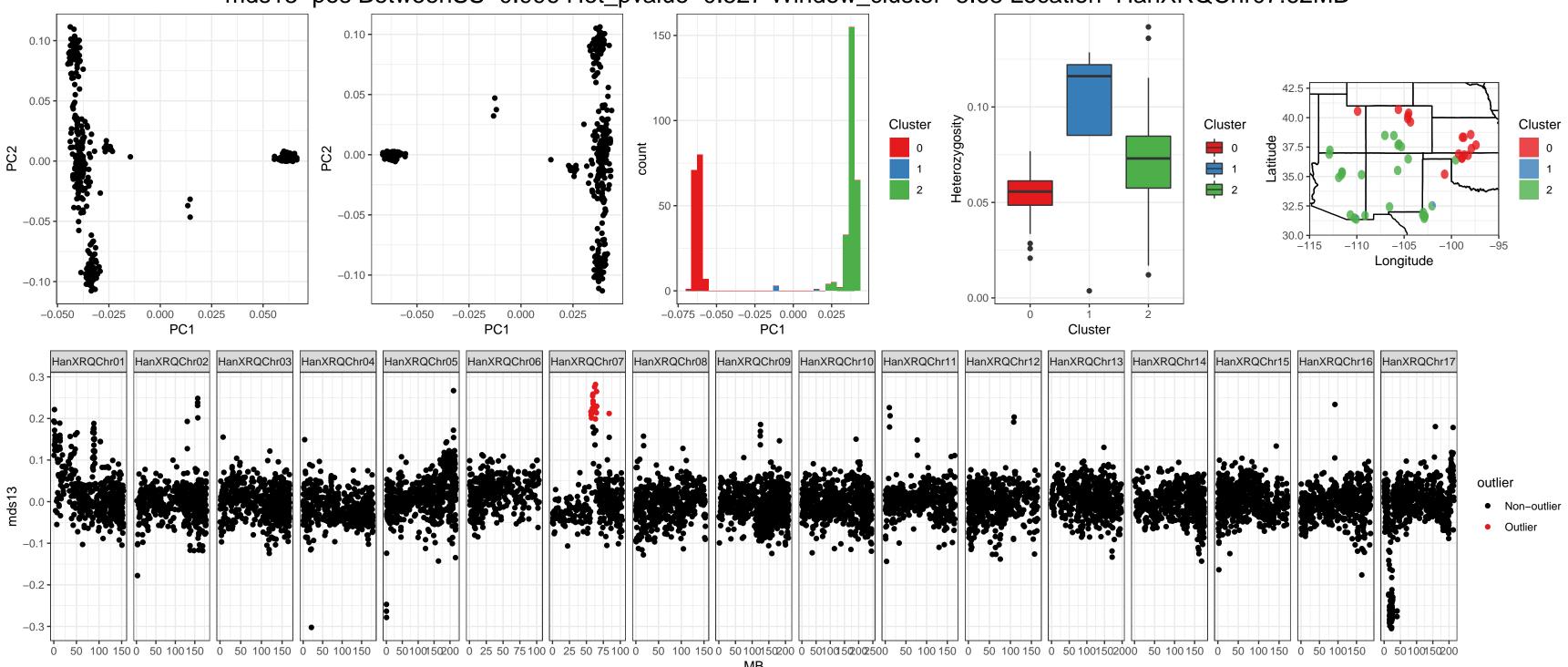
mds05-pos BetweenSS=0.985 Het\_pvalue=0.0608 Window\_cluster=3.32 Location=HanXRQChr14:142MB 0.15 -0.09 -0.05 Cluster Cluster -110 -105 Longitude -0.05 -0.00 0.05 -0.10-0.10 -0.05 PC1 PC1 PC1 Cluster HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr08 mds05

mds09-neg BetweenSS=0.995 Het\_pvalue=1.34e-26 Window\_cluster=4.11 Location=HanXRQChr01:38MB 0.05 -0.04 0.10 -Cluster Cluster 0.00 --0.05-115 -110 -105 Longitude -0.10-0.050.00 0.00 0.04 0.08 0.04 0.08 PC1 PC1 PC1 Cluster HanXRQChr05 HanXRQChr12 HanXRQChr13 HanXRQChr14

mds12-pos BetweenSS=0.986 Het\_pvalue=2.33e-10 Window\_cluster=1.9 Location=HanXRQChr05:194MB 0.10 0.05 0.100 Cluster Cluster -0.0525 0.025 -115 -110 -105 -100 Longitude -0.10 -0.000 -0.10-0.050.00 -0.10-0.050.00 -0.10-0.05PC1 PC1 PC1 Cluster HanXRQChr05 HanXRQChr08 HanXRQChr12 HanXRQChr13 HanXRQChr14 outlier 50 100 150 0 50 100 150 0 50 1001502000 50 100 150 0 50 100 150 0 50 100150 0 50 100150 0 50 100150200

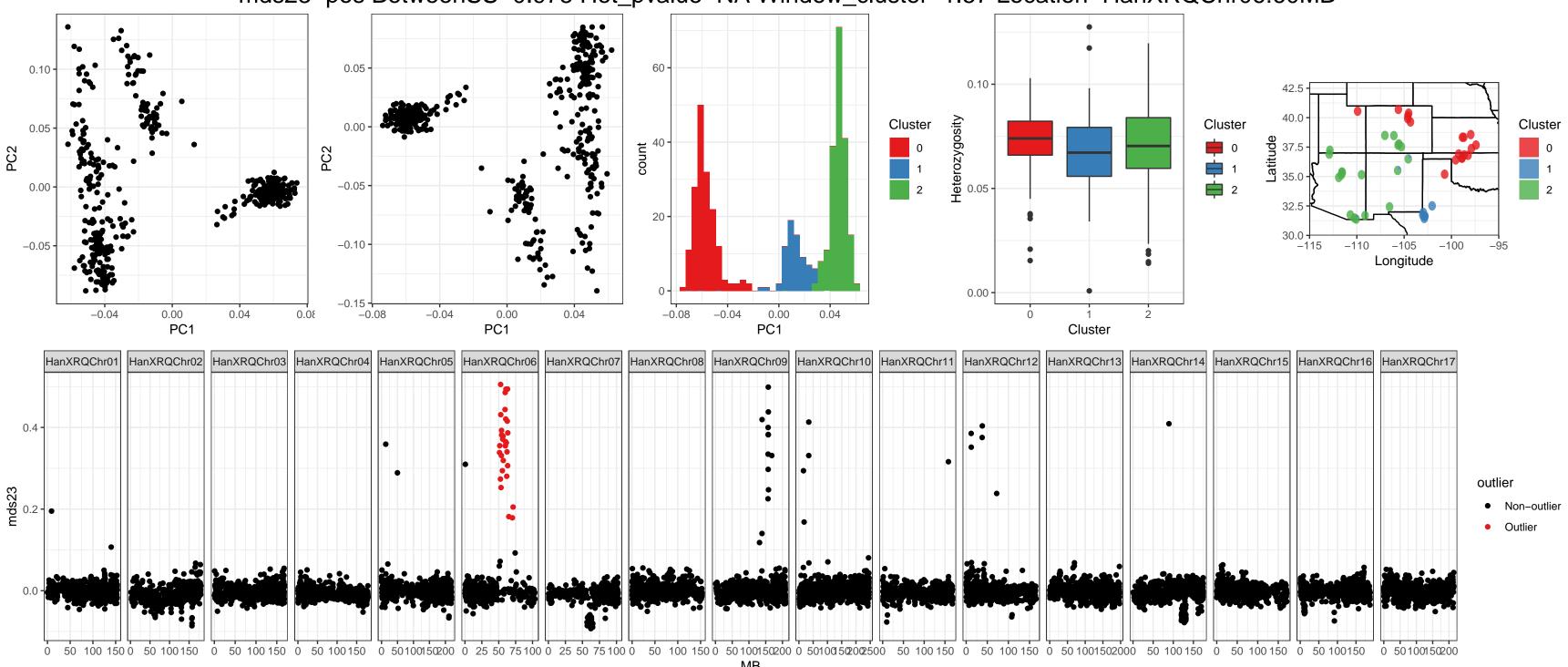
mds12-neg BetweenSS=0.979 Het\_pvalue=3.92e-10 Window\_cluster=3.28 Location=HanXRQChr09:137MB 0.100 0.05 0.05 Cluster Cluster 0.00 -0.025 -110 -105 -100 -0.05Longitude -0.05 --0.050.00 -0.10 0.00 0.05 -0.05PC1 PC1 PC1 Cluster HanXRQChr08 HanXRQChr12 HanXRQChr13 HanXRQChr14 outlier 50 100 150 0 50 100 150 0 50 1001502000 50 100 150 0 50 100 150 0 50 100150 0 50 100150 0 50 100150200

mds13-pos BetweenSS=0.996 Het\_pvalue=0.527 Window\_cluster=5.68 Location=HanXRQChr07:62MB 0.10



mds13-neg BetweenSS=0.983 Het\_pvalue=0.56 Window\_cluster=1.98 Location=HanXRQChr17:21MB 0.100 0.10 0.00 Cluster Cluster O.05 -0.050.025 -110 -105 Longitude 0.00 0.04 -0.04 0.00 0.00 PC1 PC1 PC1 Cluster HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr05

# mds23-pos BetweenSS=0.975 Het\_pvalue=NA Window\_cluster=1.57 Location=HanXRQChr06:60MB



mds24-pos BetweenSS=0.974 Het\_pvalue=0.656 Window\_cluster=3.09 Location=HanXRQChr17:198MB 0.10 -Cluster Cluster PC2 30.0 -115 -110 -105 Longitude 0.05 0.05 PC1 PC1 PC1 Cluster HanXRQChr11 HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr15

mds31-pos BetweenSS=0.974 Het\_pvalue=0.00175 Window\_cluster=3.35 Location=HanXRQChr02:72MB 0.10 Cluster Cluster -115 -110 -105 Longitude 0.00 0.05 0.00 PC1 PC1 PC1 Cluster HanXRQChr11 HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr15 mds31

### mds33-neg BetweenSS=0.942 Het\_pvalue=NA Window\_cluster=17.2 Location=HanXRQChr09:96MB 0.10 -Cluster Cluster -110 Longitude -0.10 -0.00 0.05 0.05 0.00 PC1 PC1 Cluster

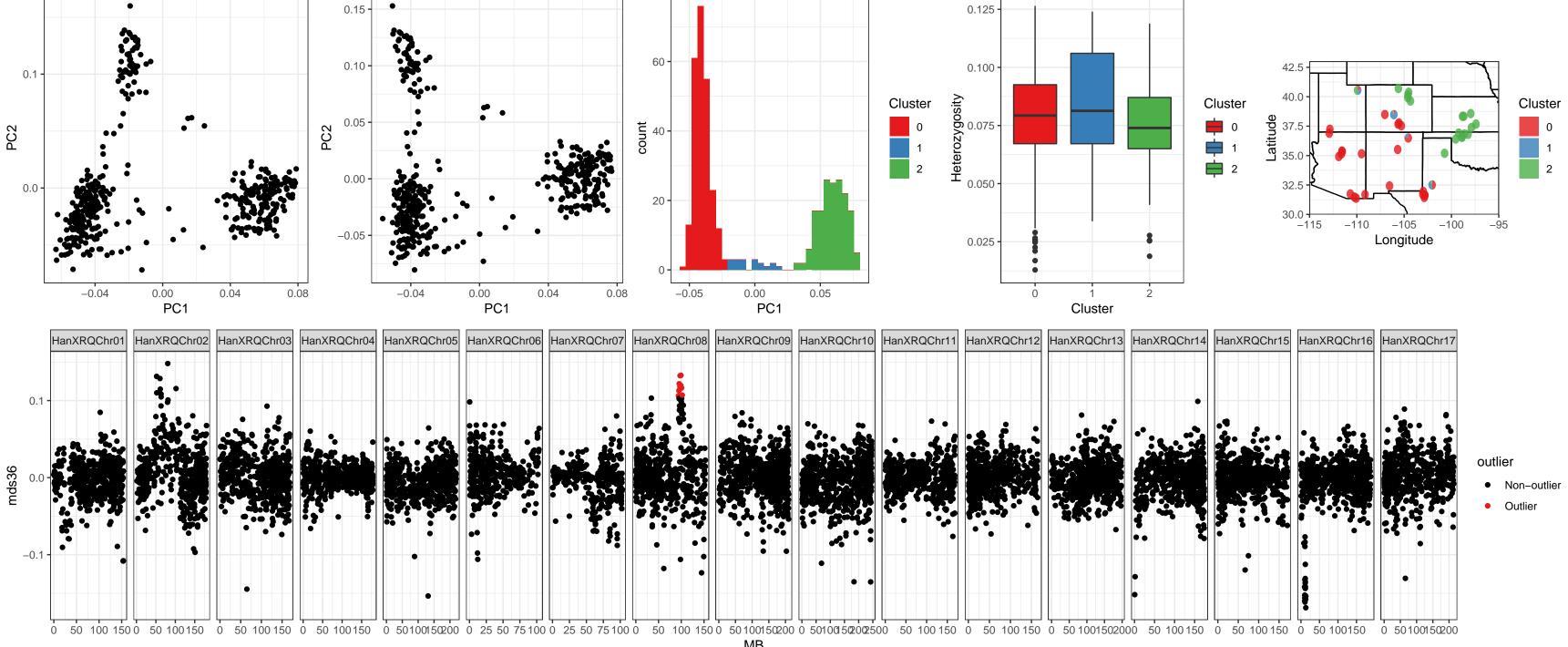
50 100 150 0 50 100 150 0 50 1001502000 50 100 150 0 50 100 150 0 50 100150 0 50 100150 0 50 100150200

## mds34-pos BetweenSS=0.926 Het\_pvalue=NA Window\_cluster=13.67 Location=HanXRQChr09:93MB Cluster Cluster 30.0 -115 -110 -105 Longitude -0.100.05 PC1 PC1 Cluster

#### mds34-neg BetweenSS=0.981 Het\_pvalue=NA Window\_cluster=1.39 Location=HanXRQChr16:11MB 0.05 0.10 0.10 Cluster Cluster -0.05 -115 -110 -105 -100-0.10 **-**Longitude 0.000 0.025 0.050 -0.050-0.025 0.000 0.025 0.050 PC1 PC1 PC1 Cluster HanXRQChr12 HanXRQChr13 HanXRQChr14

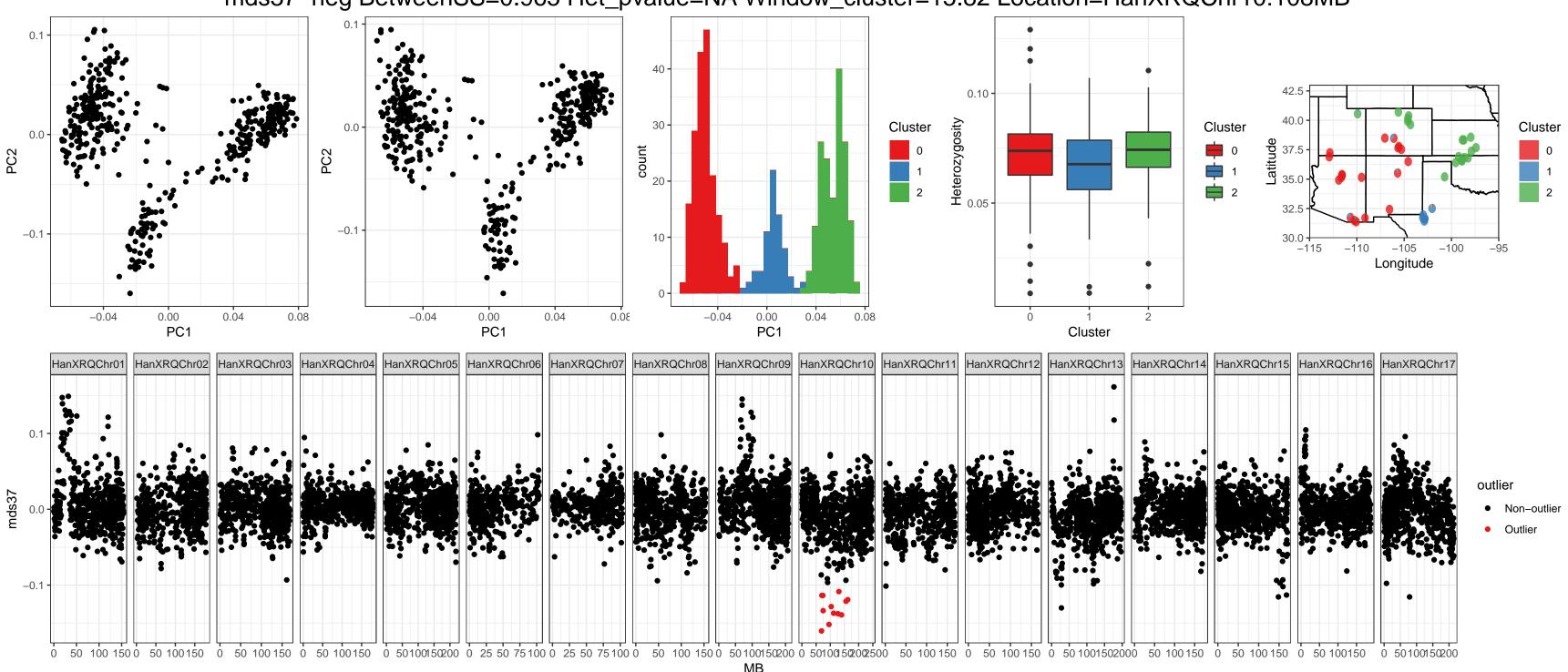
mds35-neg BetweenSS=0.93 Het\_pvalue=NA Window\_cluster=3.6 Location=HanXRQChr14:49MB Cluster Cluster -115 Longitude 0.025 0.00 0.00 PC1 PC1 PC1 Cluster HanXRQChr11 HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr15 HanXRQChr06 HanXRQChr07 HanXRQChr08

#### mds36-pos BetweenSS=0.973 Het\_pvalue=0.394 Window\_cluster=2.67 Location=HanXRQChr08:98MB 0.15 0.100 Cluster Cluster -110 Longitude 0.025 PC1 PC1 Cluster HanXRQChr11 HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr15 HanXRQChr05 HanXRQChr06 HanXRQChr07 HanXRQChr08 HanXRQChr10



mds37-pos BetweenSS=0.97 Het\_pvalue=5.59e-20 Window\_cluster=25.09 Location=HanXRQChr01:34MB 0.15 -0.10 -0.05 Cluster Cluster -0.050.05 -110 -105 -0.10Longitude -0.05 0.00 0.05 -0.05 0.00 PC1 PC1 PC1 Cluster HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr15 HanXRQChr05

# mds37-neg BetweenSS=0.965 Het\_pvalue=NA Window\_cluster=15.82 Location=HanXRQChr10:108MB



#### mds38-pos BetweenSS=0.972 Het\_pvalue=NA Window\_cluster=3.21 Location=HanXRQChr17:56MB 0.100 0.05 0.05 Heterozygosity 0.020 Cluster Cluster 0.025 -110 -105 Longitude 0.00 PC1 PC1 PC1 Cluster HanXRQChr07 HanXRQChr08 HanXRQChr11 HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr15 HanXRQChr05 HanXRQChr06 HanXRQChr10

#### mds40-pos BetweenSS=0.959 Het\_pvalue=NA Window\_cluster=5.56 Location=HanXRQChr09:85MB 0.10 0.10 -Cluster Cluster -110 -105 Longitude 0.05 0.00 PC1 PC1 PC1 Cluster HanXRQChr11 HanXRQChr12 HanXRQChr13 HanXRQChr14 HanXRQChr15 HanXRQChr05 HanXRQChr06 HanXRQChr07 HanXRQChr08

### mds40-neg BetweenSS=0.922 Het\_pvalue=NA Window\_cluster=3 Location=HanXRQChr14:49MB 0.100 Cluster Cluster 0.0 -110 -105 Longitude 0.025 -0.050.00 -0.10PC1 PC1 PC1 Cluster