

Figure S2. Phylogenetic tree with ultrafast bootstraps of PB2 gene segment. Genotypes, flyway, and host category are color coded differently and bootstrap support values are indicated categorically.

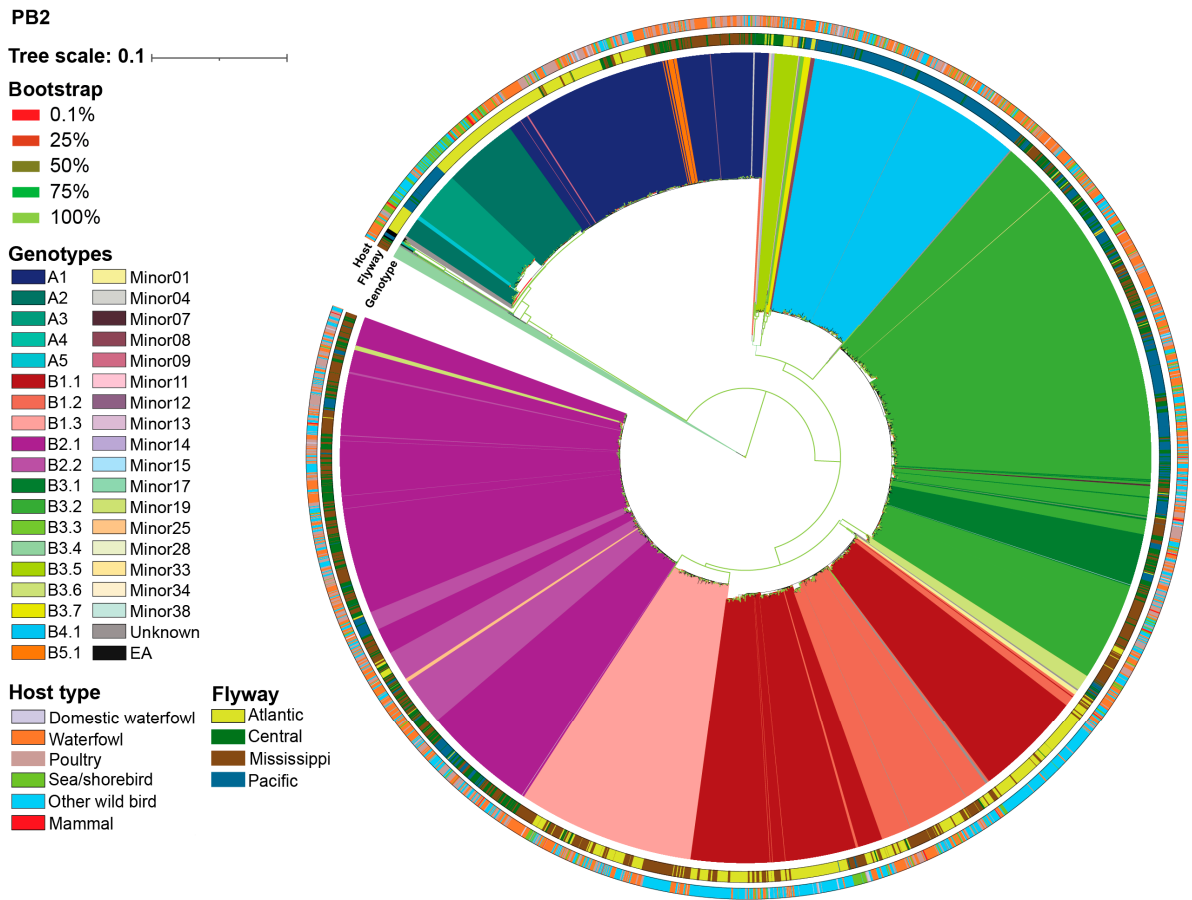


Figure S3. Phylogenetic tree with ultrafast bootstraps of PB2 gene segment with genotypes annotation on graph. Genotypes are color coded differently and bootstrap support values are indicated categorically.

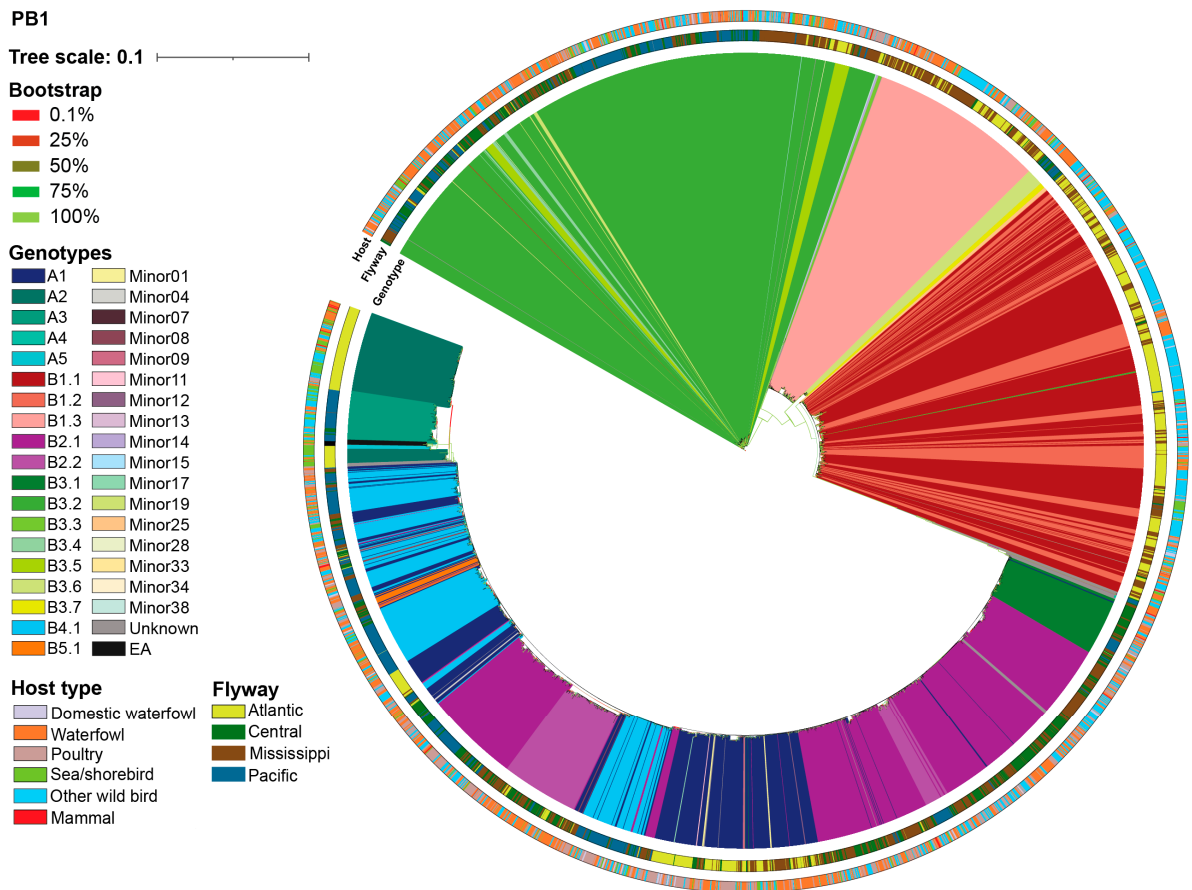


Figure S4. Phylogenetic tree with ultrafast bootstraps of PB1 gene segment. Genotypes, flyway, and host category are color coded differently and bootstrap support values are indicated categorically.

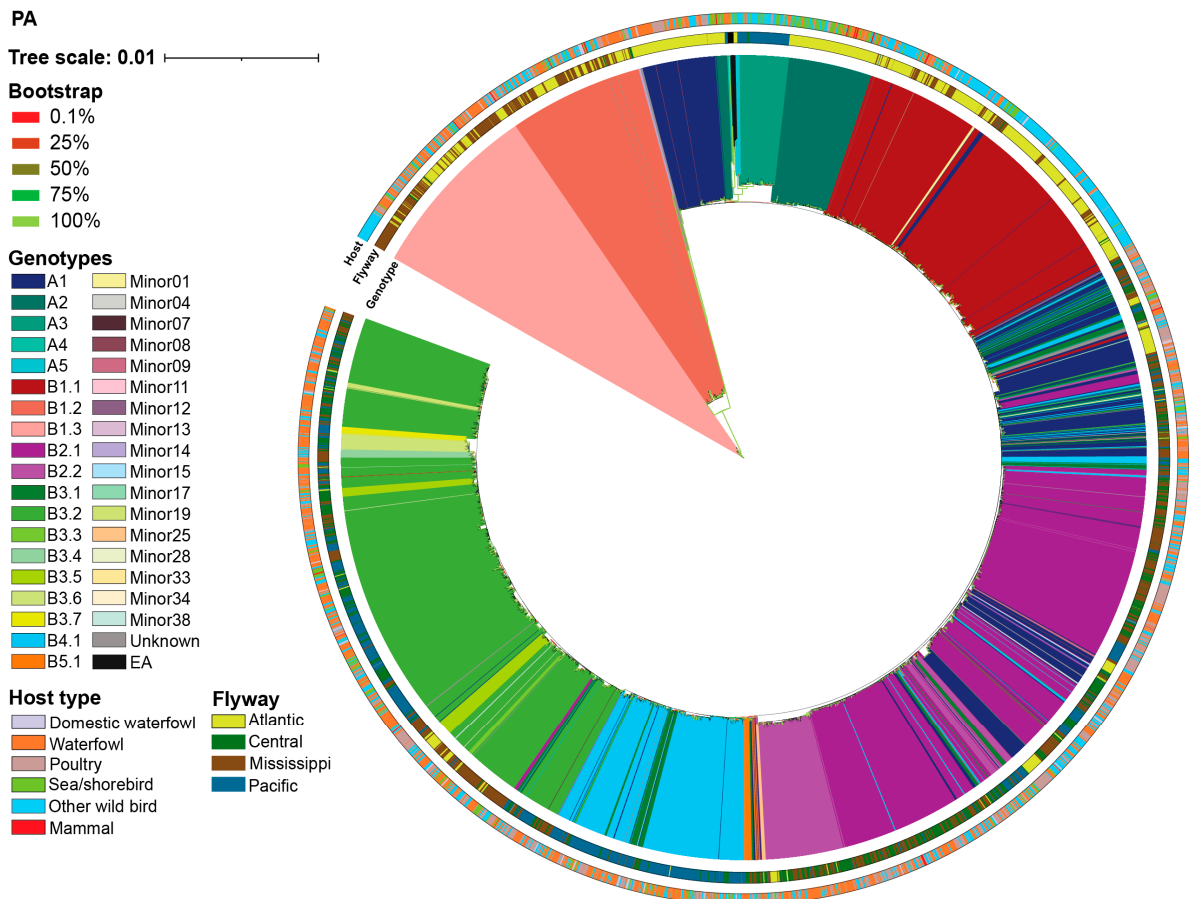


Figure S5. Phylogenetic tree with ultrafast bootstraps of PA gene segment. Genotypes, flyway, and host category are color coded differently and bootstrap support values are indicated categorically.

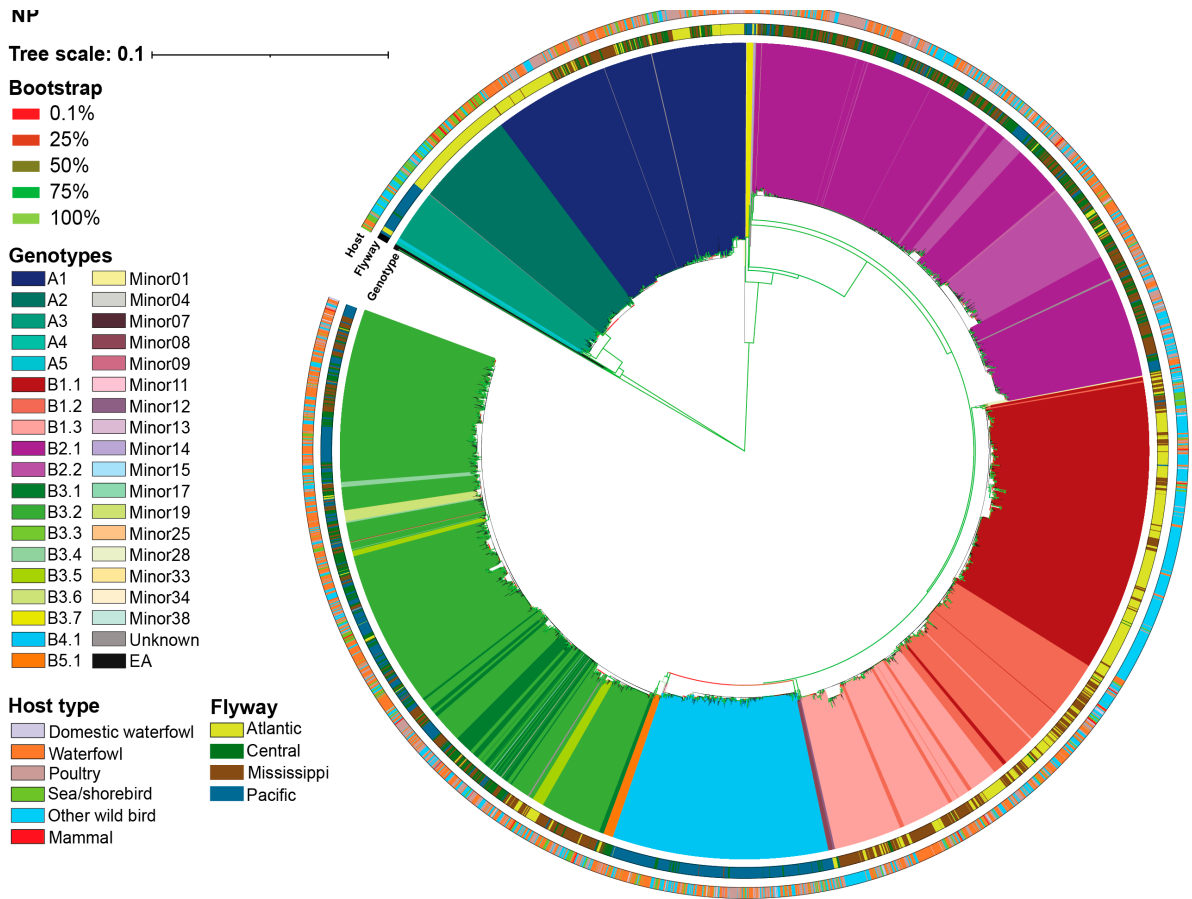


Figure S6. Phylogenetic tree with ultrafast bootstraps of NP gene segment. Genotypes, flyway, and host category are color coded differently and bootstrap support values are indicated categorically.

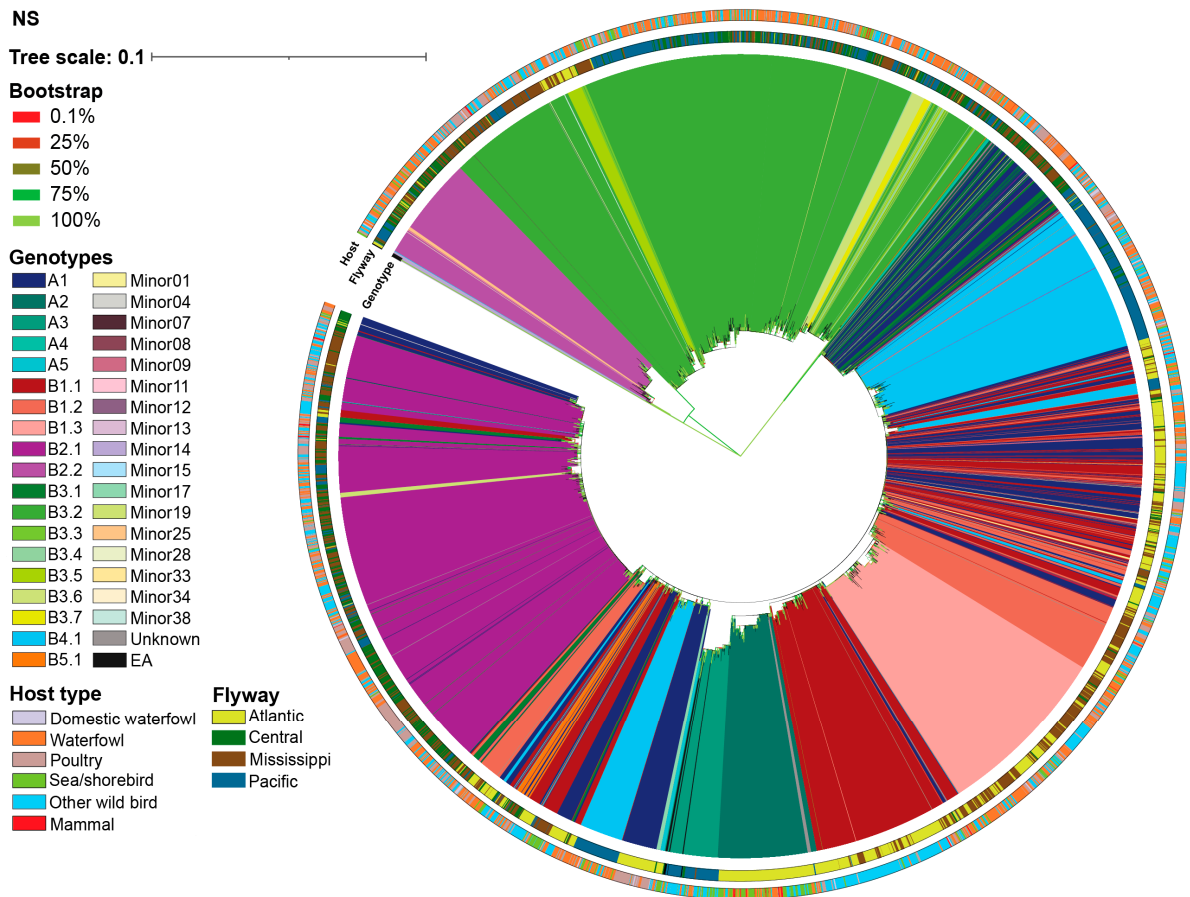


Figure S7. Phylogenetic tree with ultrafast bootstraps of NS gene segment. Genotypes, flyway, and host category are color coded differently and bootstrap support values are indicated categorically.

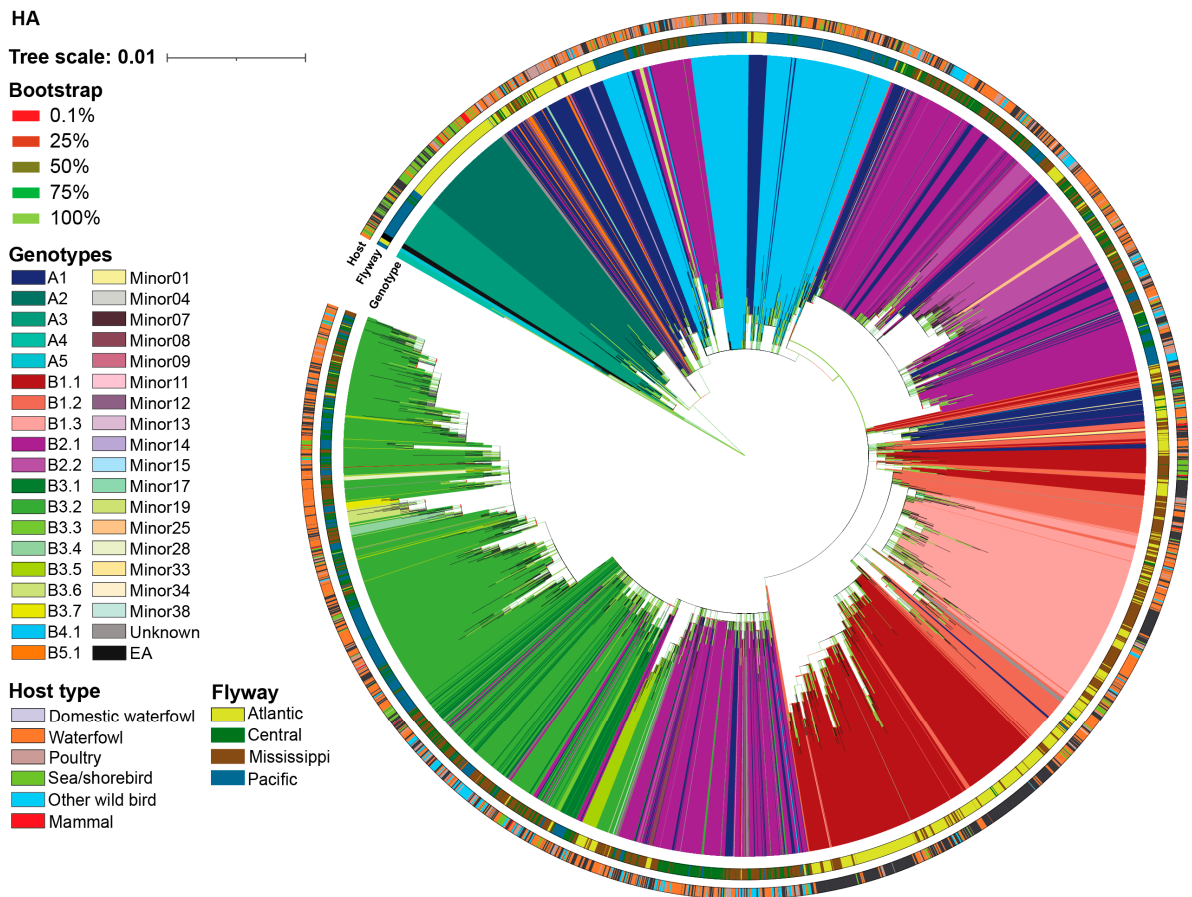


Figure S8. Phylogenetic tree with ultrafast bootstraps of HA gene segment. Genotypes, flyway, and host category are color coded differently and bootstrap support values are indicated categorically.

NA

Tree scale: 0.01

Bootstrap

0.1%
25%
50%
75%
100%

Genotypes

A1 Minor01
A2 Minor04
A3 Minor07
A4 Minor08
A5 Minor09
B1.1 Minor11
B1.2 Minor12
B1.3 Minor13
B2.1 Minor14
B2.2 Minor15
B3.1 Minor17
B3.2 Minor19
B3.3 Minor25
B3.4 Minor28
B3.5 Minor33
B3.6 Minor34
B3.7 Minor38
B4.1 Unknown
B5.1 EA

Host type

Domestic waterfowl
Waterfowl
Poultry
Sea/shorebird
Other wild bird
Mammal

Flyway

Atlantic
Central
Mississippi
Pacific

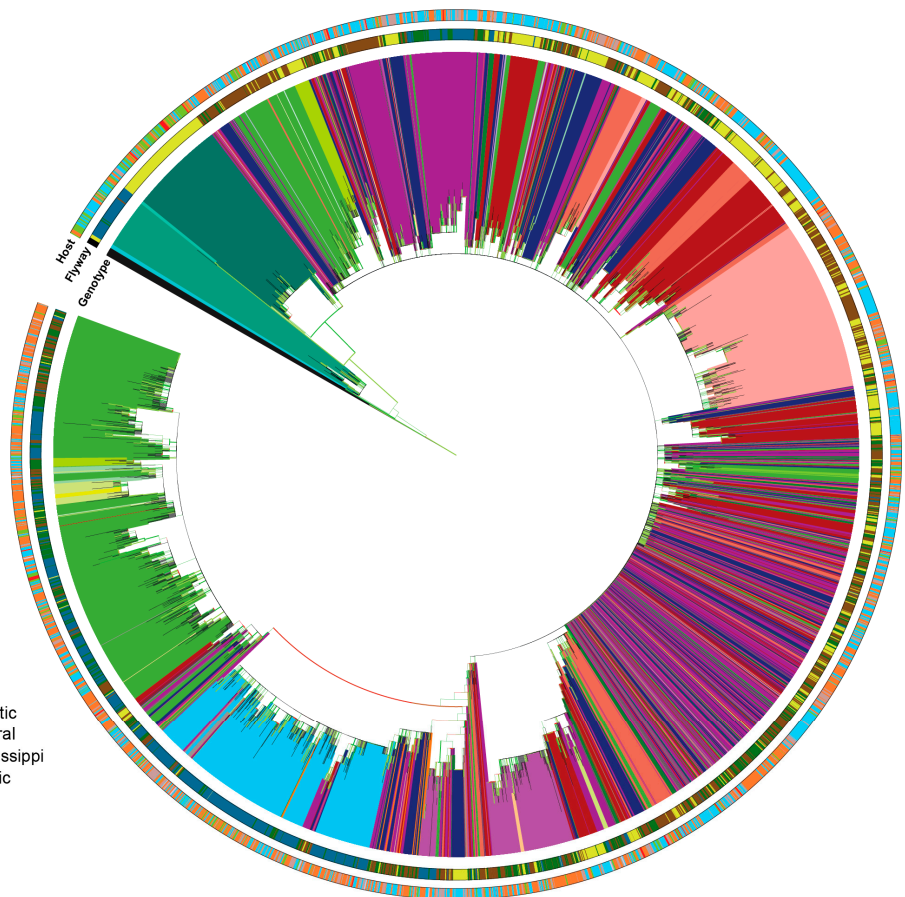


Figure S9. Phylogenetic tree with ultrafast bootstraps of NA gene segment. Genotypes, flyway, and host category are color coded differently and bootstrap support values are indicated categorically.

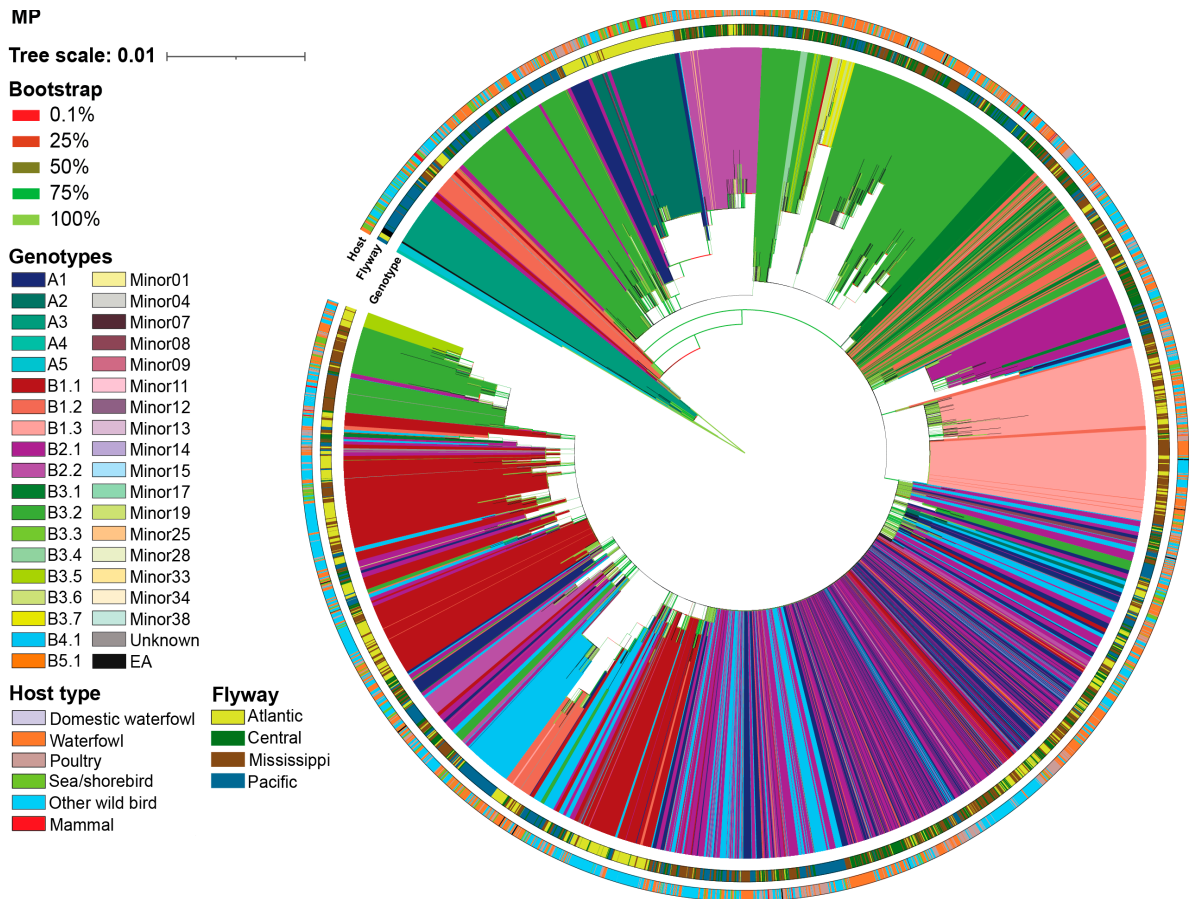


Figure S10. Phylogenetic tree with ultrafast bootstraps of MP gene segment. Genotypes, flyway, and host category are color coded differently and bootstrap support values are indicated categorically.

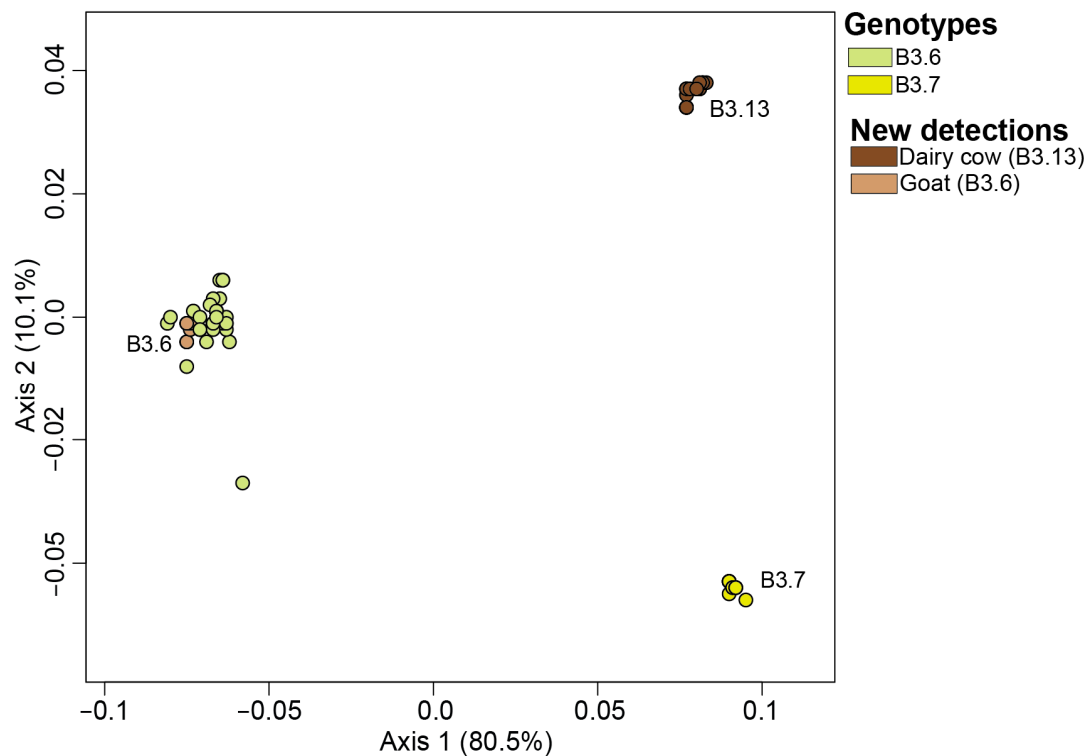


Figure S11. Multidimensional scaling to visualize genotypic diversity of reassortant H5N1 whole-genome viruses belonging to the genotypes B3.6, B3.7, and B3.13.