

Supplementary Figure SF3. The detailed type result for HA segment. The year range, hosts, locations and subtypes are shown after each HA type, where the circles represent hosts and the rectangles represent locations. The hosts and locations are distinguished by different colors.

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|--------------|---------------|----------------|-----------------|-----------------------|------------------------|
| East Africa | Middle Africa | Southeast Asia | Northern Europe | North America | Midwest South American |
| North Africa | Central Asia | West Asia | Southern Europe | The Caribbean | Northern South America |
| South Africa | East Asia | Central Europe | Western Europe | Oceania | Southern South America |
| West Africa | South Asia | Eastern Europe | Middle America | Eastern South America | |

