|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Season** | **Root Height** | **Growth Rate** | **Clock Rate** | **Clade** | **Clade Divergence Date** | **Sequences** | **Locations** |
| 2006-2007 | 4.102 (2.868-5.429) | 1.031 (0.567-1.51) | 0.004611 (0.003438-0.005903) | 1 | 2006.686 (2006.51 - 2006.831) | 35 | 10 |
| 2 | 2006.467 (2006.176 - 2006.732) | 38 | 11 |
| 3 | 2006.780 (2006.621 - 2006.917) | 28 | 9 |
| 2007-2008 | 4.237 (2.288-6.999) | 1.541 (0.648-2.473) | 0.002746 (0.00122-0.004286) | 1 | 2006.960 (2006.143 - 2007.573) | 23 | 13 |
| 2008-2009 | 1.363 (0.944-1.874) | 1.645 (0.59-2.679) | 0.006018 (0.003936-0.008157) | NA | NA | NA | NA |
| 2010-2011 | 2.26 (1.705-2.901) | 2.083 (1.329-2.909) | 0.004176 (0.003123-0.005239) | 1 | 2010.549 (2010.443 - 2010.803) | 23 | 14 |
|  | 2 | 2010.364 (2010.22 - 2010.667) | 25 | 17 |
|  | 3 | 2010.374 (2010.253 - 2010.627) | 86 | 38 |
| 2011-2012 | 1.913 (1.459-2.418) | 1.8 (0.946-2.701) | 0.005543 (0.004205-0.006926) | 1 | 2011.870 (2011.763 - 2011.964) | 33 | 15 |
|  | 2 | 2011.615 (2011.424 - 2011.790) | 113 | 35 |
| 2012-2013 | 3.028 (2.188-3.941) | 0.933 (0.388-1.524) | 0.005109 (0.003875-0.006435) | 1 | 2012.708 (2012.623 - 2012.846) | 29 | 14 |

**Table S4.** Summary of epidemiological and evolutionary dynamics of H1N1 epidemics based on phylogenetic analyses of each influenza season. ‘Root Height’ is measured in years before present, with the present time equal to the latest sampling date. ‘Clock rate’ is measured in substitutions/site/year. ‘Sequences’ represents the number of sequences analyzed per clade and ‘Locations’ represents the number of states these sequences were collected from.