

**Data S1. Modeling the daily fraction of the G614 variant as a function of time in local regions using isotonic regression, data related to Fig. 3** This item provides the complete set of tables as in Fig. 3A, including countries (level 2), sub-countries/states (level 3) and counties/cities (level 4). It also includes a complete set of plots for all geographic levels. Examples of 3 of these plots and descriptions of their content are provided in Fig. 3B. Some information in Fig. 3 is repeated here, so the data included in this data file constitutes a complete set.

Complete tables to support main text Fig. 3A.

14 countries with a clear direction, 13 increasing: p = 0.0018						
Level 1: Country	# D614	# G614	# of days	Time window days	G614 increasing p-value	G614 decreasing p-value
Australia	449	563	62	90	0.00025	1.00
Canada	67	114	33	86	0.00025	1.00
Chile	24	118	34	35	0.00025	1.00
China	467	42	71	114	0.00025	1.00
France	16	272	54	85	0.00025	1.00
India	182	187	62	105	0.00025	0.90
Japan	74	28	26	92	0.00025	0.98
Netherlands	97	198	40	57	0.00025	0.90
Spain	126	206	40	45	0.00025	0.84
Taiwan	44	49	41	95	0.00025	0.25
United-Kingdom	3101	9315	88	109	0.00025	1.00
USA	1798	4233	93	114	0.00025	0.001*
*USA excluding Santa Clara	1633	4209	93	114	0.00025	1.00
Thailand	37	17	28	88	0.0005	0.77
Germany	27	120	47	76	0.0023	0.44
Denmark	32	500	37	39	0.08	0.52
Sweden	11	220	52	70	0.09	0.69
Belgium	53	363	46	77	0.10	0.24
Austria	20	204	41	53	0.58	0.38
Iceland	126	366	28	31	0.62	0.0005
Greece	23	76	26	35	0.96	0.097

31 regions with a clear direction, 30 increasing:  $p = 2.98e-08$

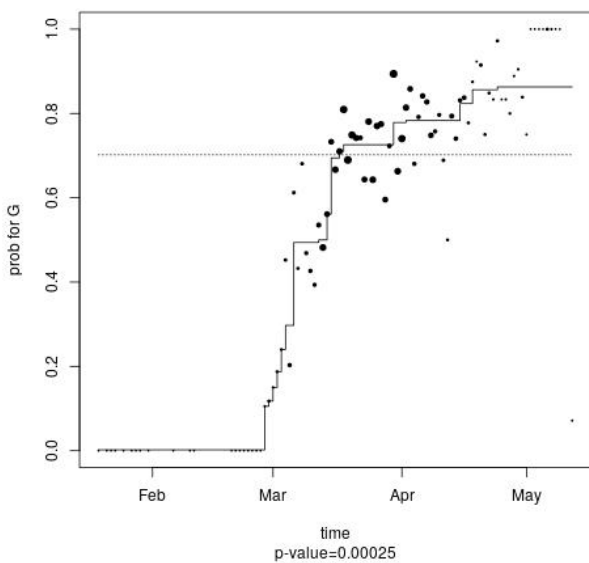
Level 2: Region	# D614	# G614	# of days	Time window days	G614 increasing p-value	G614 decreasing p-value
Australia_New-South-Wales	189	180	51	90	0.00025	0.99
Australia_Victoria	226	306	43	80	0.00025	0.93
Belgium_Ghent	12	37	18	26	0.00025	0.77
China_Beijing	46	25	35	66	0.00025	0.98
Germany_North-Rhine-Westphalia	16	37	16	27	0.00025	0.91
Spain_Comunitat-Valenciana	73	110	32	34	0.00025	0.95
Taiwan-Taoyuan	14	12	16	85	0.00025	0.51
United-Kingdom_England	1904	6338	88	109	0.00025	1.00
United-Kingdom_Scotland	433	1125	73	75	0.00025	0.68
United-Kingdom_Wales	717	1792	45	54	0.00025	0.95
USA_Arizona	11	64	22	71	0.00025	0.99
USA_California	267	199	70	111	0.00025	0.001*
*USA_California excluding Santa Clara	102	175	53	107	0.00025	0.99
USA_Michigan	31	382	38	53	0.00025	0.85
USA_New-York	91	1163	52	55	0.00025	1.00
USA_Utah	24	253	38	45	0.00025	0.98
USA_Virginia	27	220	43	47	0.00025	0.99
USA_Washington	926	683	69	101	0.00025	1.00
USA_Wisconsin	156	197	49	93	0.00025	0.07
India_Maharashtra	30	35	30	48	0.0005	0.97
Thailand_Bangkok	26	12	19	70	0.0005	0.72
Chile_Santiago	19	63	27	34	0.00075	0.99
USA_Illinois	38	56	26	88	0.00075	0.98
United-Kingdom_Northern-Ireland	47	60	22	27	0.00325	0.42
Australia_South-Australia	15	58	23	32	0.0035	0.84
USA_Minnesota	51	96	35	47	0.004	0.76
Taiwan_Taipei	17	26	26	94	0.0053	0.45
Australia_Queensland	12	13	14	58	0.0058	0.96
USA_Florida	11	35	18	69	0.009	0.82
USA_Connecticut	22	127	34	71	0.0095	0.93
Belgium_Liege	19	140	24	44	0.016	0.47
Denmark_Unknown	32	493	34	34	0.026	0.56
Canada_Ontario	26	32	15	57	0.062	0.91
India_Gujarat	10	110	22	36	0.085	0.08
Austria_Vienna	10	108	33	41	0.12	0.53
Spain_Madrid	20	56	16	33	0.15	0.89
Netherlands_Noord-Brabant	44	32	18	23	0.21	0.64
USA_Texas	75	169	29	53	0.26	0.72
Netherlands_Zuid-Holland	15	75	23	29	0.28	0.69
Netherlands_Utrecht	18	52	31	55	0.30	0.54
India_Delhi	24	13	16	32	0.93	0.00075

19 cities with a clear direction, 17 increasing:  $p = 0.0007$

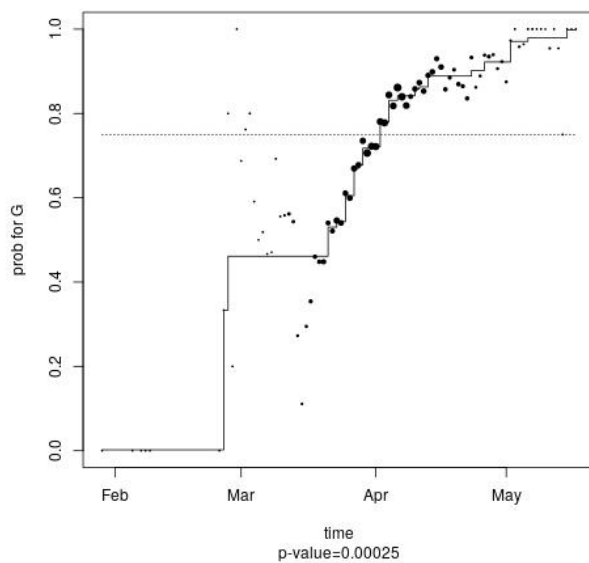
Level 3: County/City	# D614	# G614	# of days	Time window days	G614 increasing p-value	G614 decreasing p-value
Australia_New-South-Wales_Sydney	189	179	51	90	0.00025	1.00
Spain_Comunitat-Valenciana_Valencia	72	97	30	34	0.00025	0.64
United-Kingdom_England_Bristol	240	629	35	37	0.00025	0.28
United-Kingdom_England_Cambridge	751	3020	81	81	0.00025	1.00
United-Kingdom_England_Liverpool	97	484	46	45	0.00025	0.71
United-Kingdom_England_Nottingham	204	386	67	76	0.00025	0.99
United-Kingdom_England_Sheffield	120	431	44	51	0.00025	1.00
USA_Washington_King	173	75	58	69	0.00025	0.99
USA_Washington_Pierce	32	35	21	38	0.00025	1.00
USA_Washington_Snohomish	35	32	27	93	0.00025	1.00
USA_Wisconsin_Milwaukee	66	30	32	45	0.00025	0.97
United-Kingdom_England_Norwich	29	269	26	28	0.00075	0.97
USA_California_San-Diego	11	75	33	58	0.002	0.95
United-Kingdom_England_London	36	357	19	24	0.0085	0.91
USA_Wisconsin_Madison	13	43	26	35	0.030	0.39
USA_New-York_Manhattan	38	339	30	45	0.036	0.90
USA_California_San-Francisco	59	83	21	48	0.049	0.34
USA_New-York_Brooklyn	13	292	31	46	0.070	0.87
USA_Washington_Yakima	184	59	31	36	0.073	0.00025
USA_California_Santa-Clara	165	24	50	76	0.49	0.00025

# D614 to G614 Transitions Over Time by Country part 1

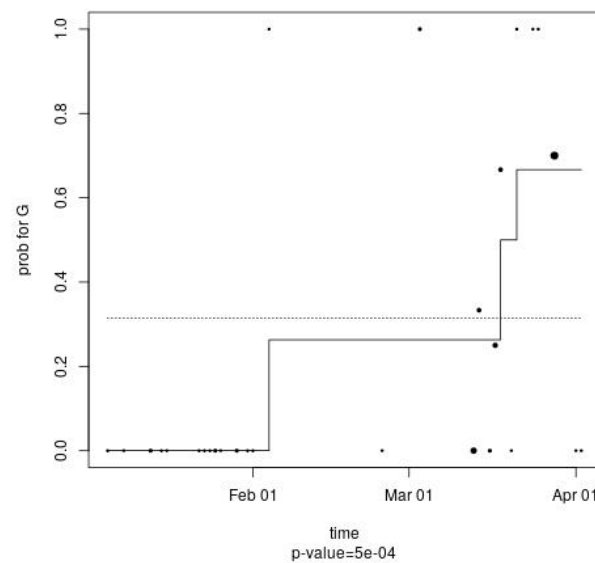
USA



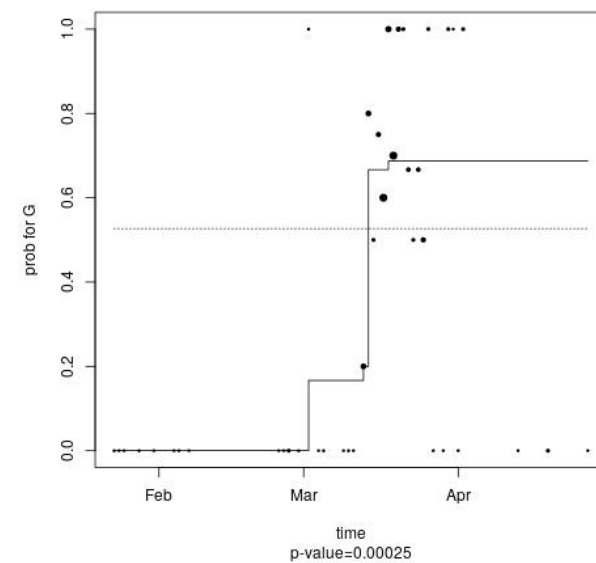
United-Kingdom



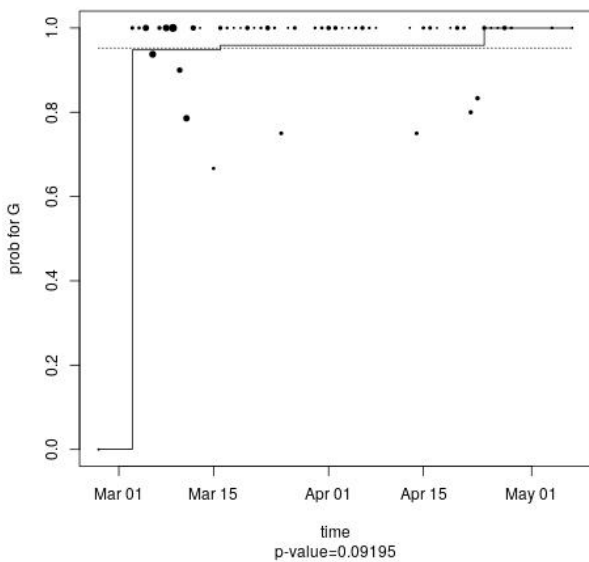
Thailand



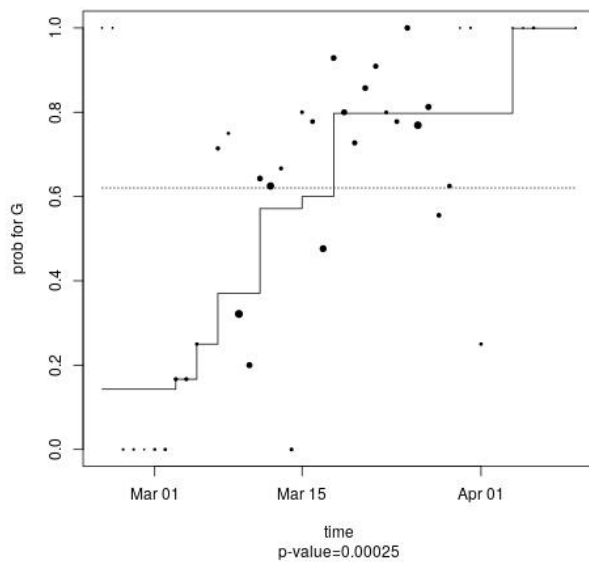
Taiwan



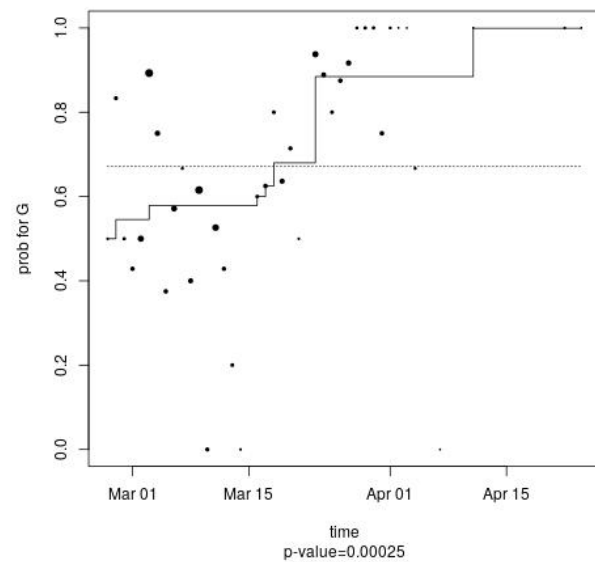
Sweden



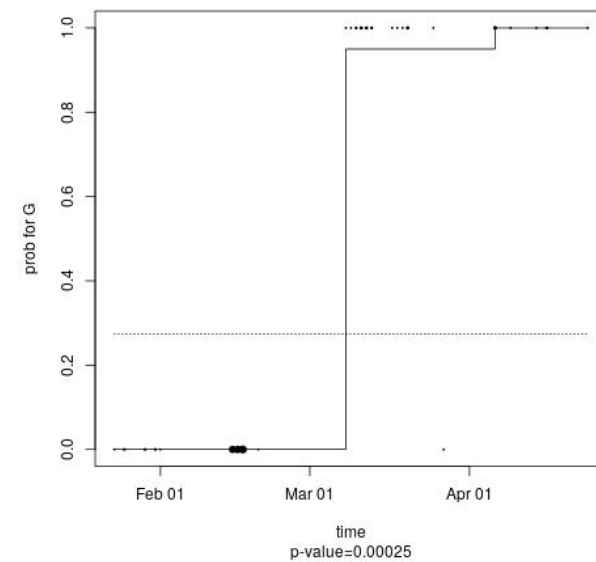
Spain



Netherlands

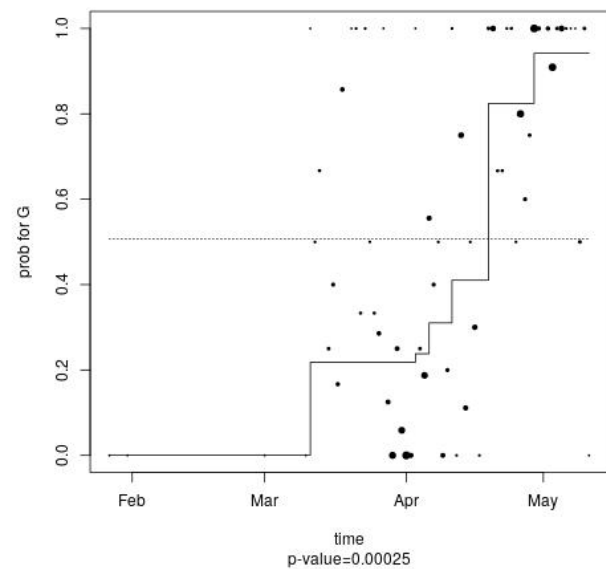


Japan

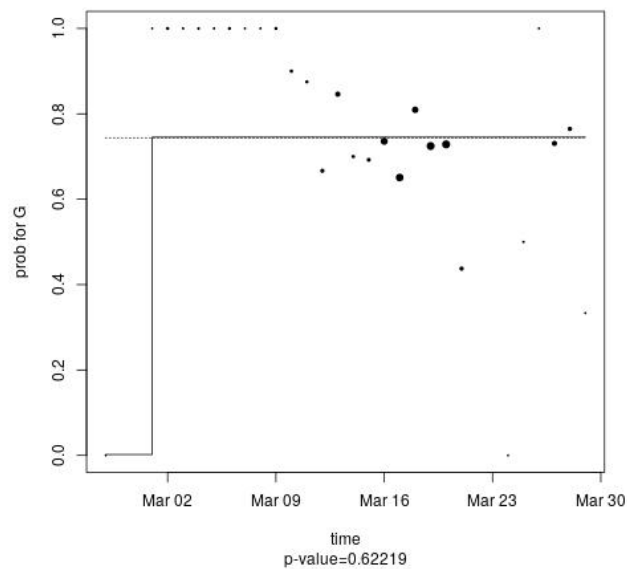


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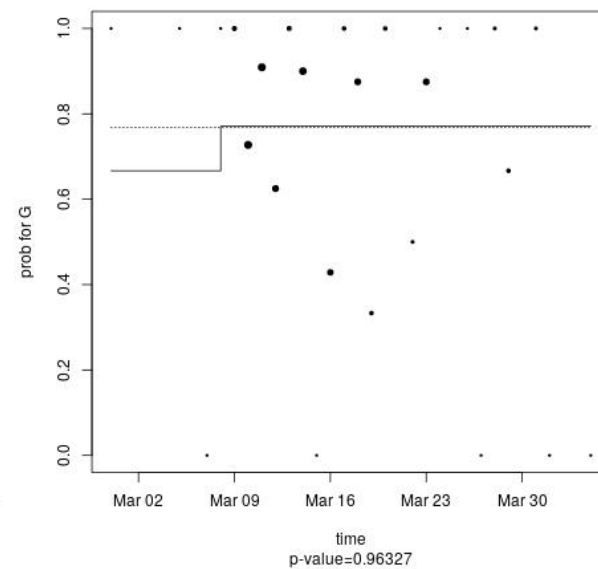
**India**



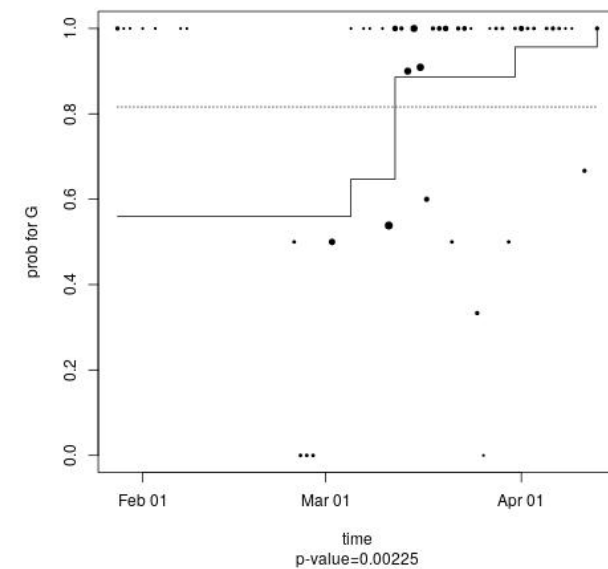
**Iceland**



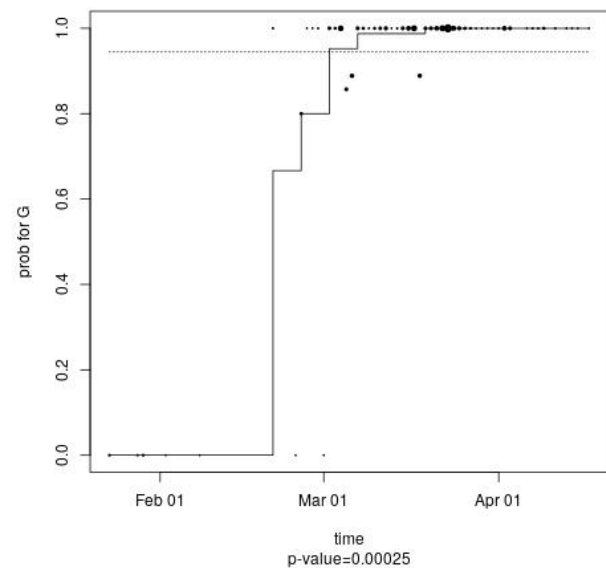
**Greece**



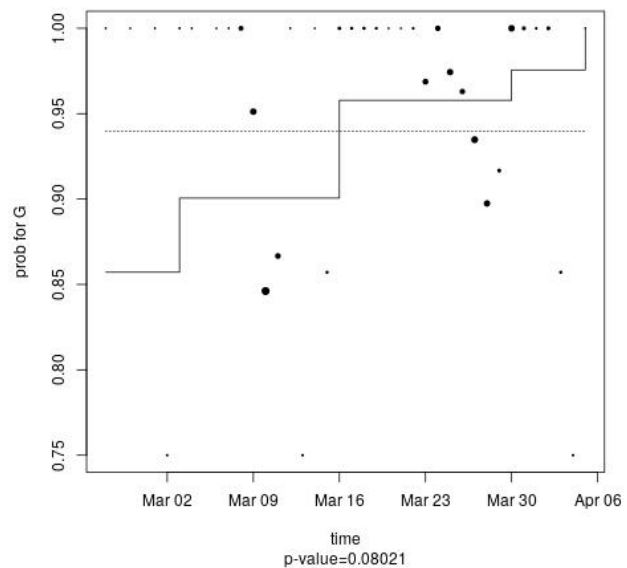
**Germany**



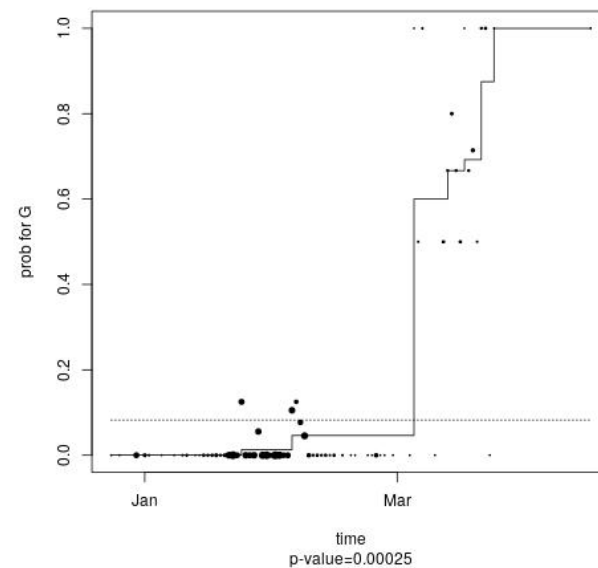
**France**



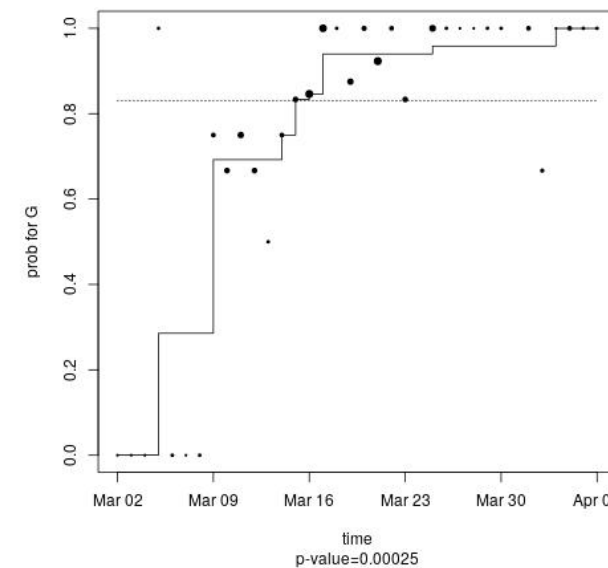
**Denmark**



**China**

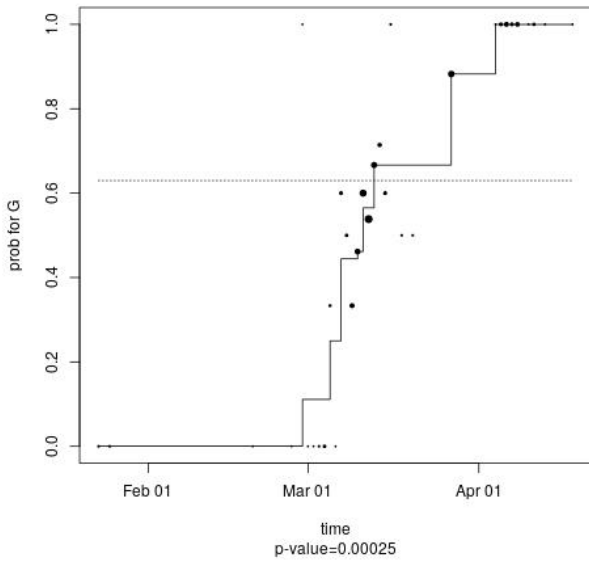


**Chile**

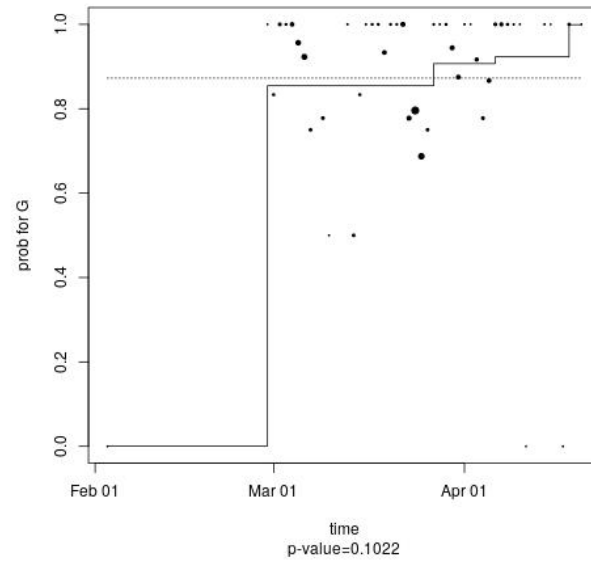


# D614 to G614 Transitions Over Time by Country part 3

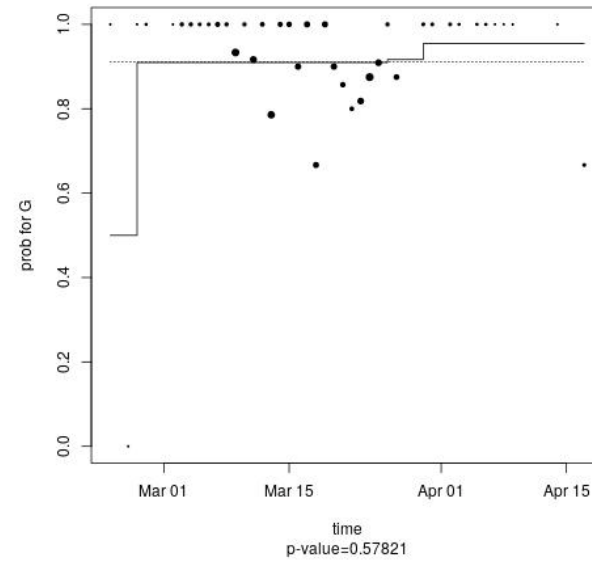
Canada



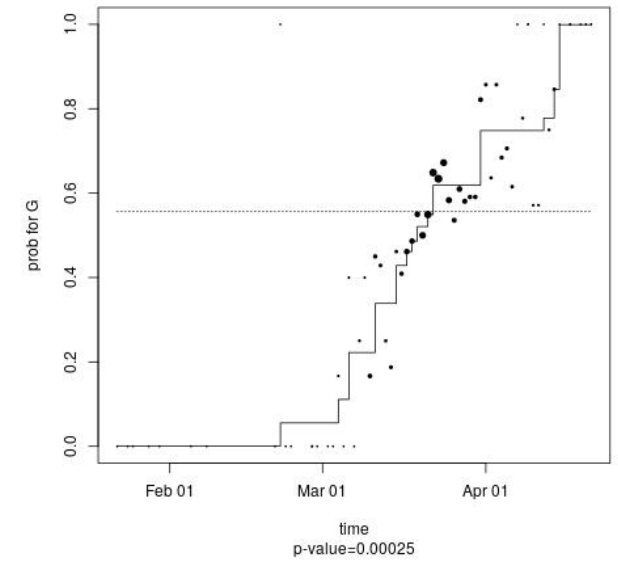
Belgium



Austria

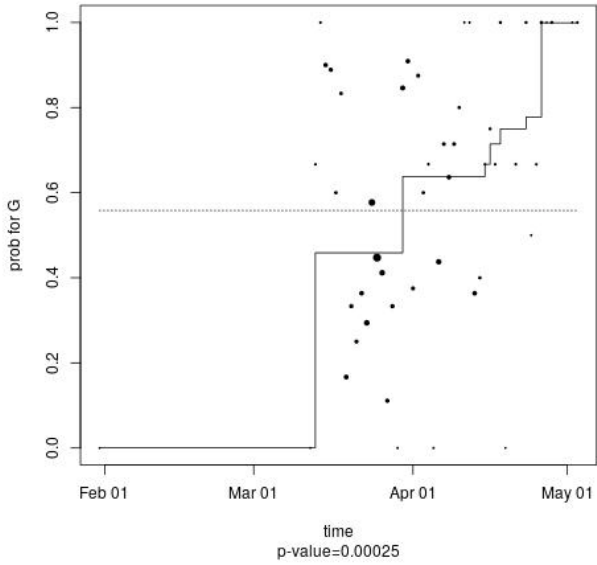


Australia

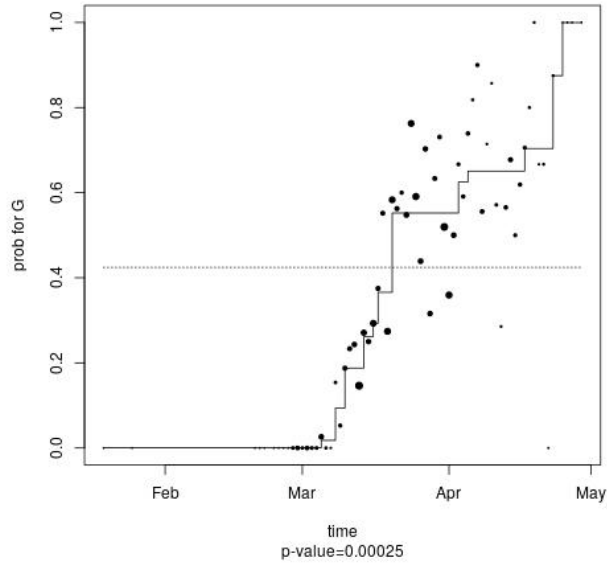


# D614 to G614 Transitions Over Time by Region part 1

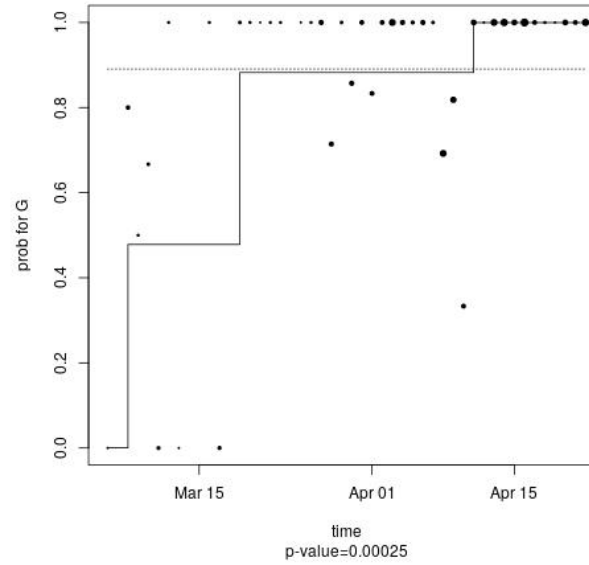
**USA\_Wisconsin**



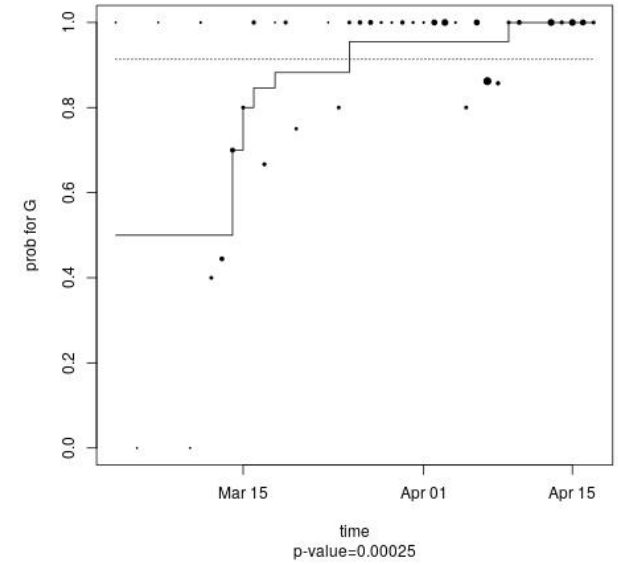
**USA\_Washington**



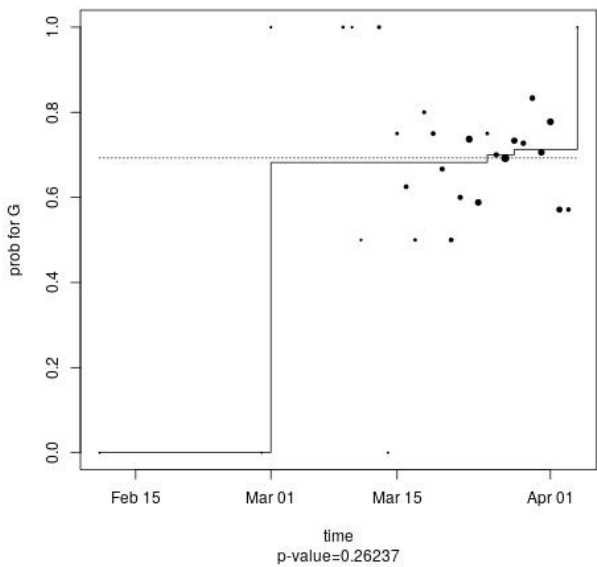
**USA\_Virginia**



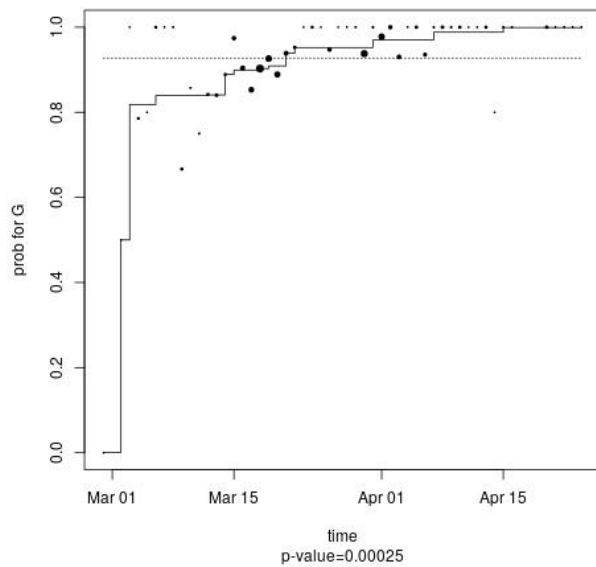
**USA\_Utah**



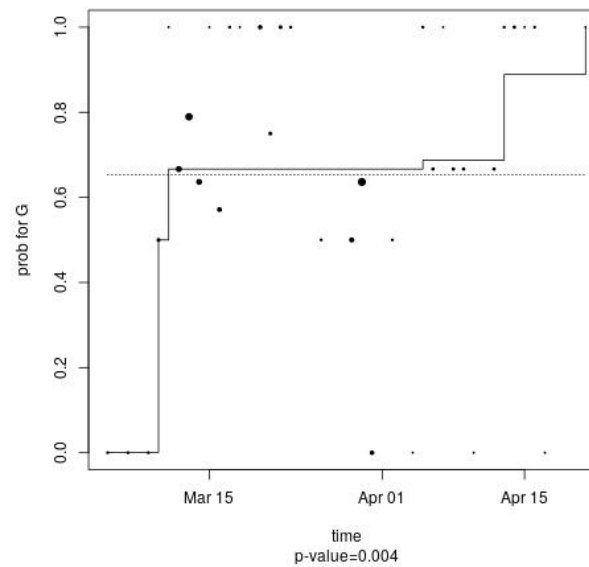
**USA\_Texas**



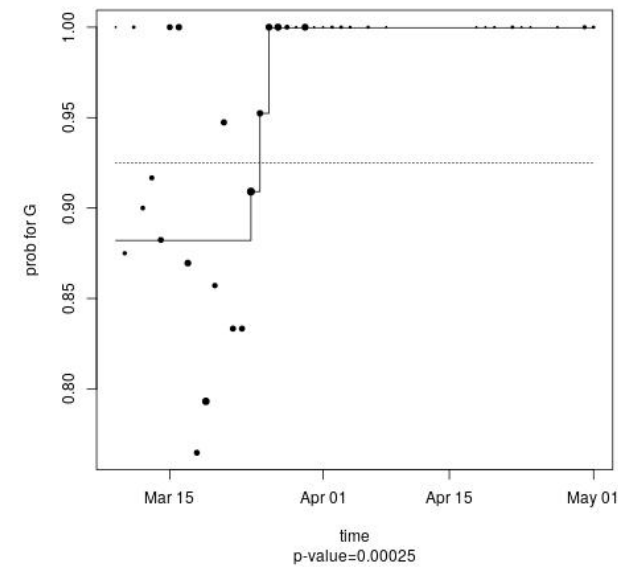
**USA\_New-York**



**USA\_Minnesota**

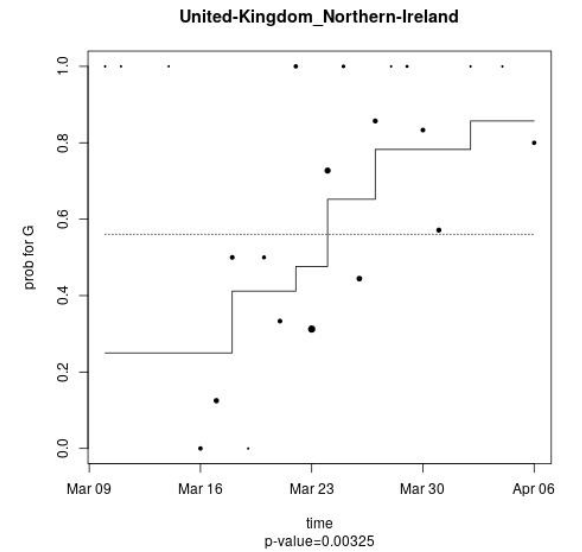
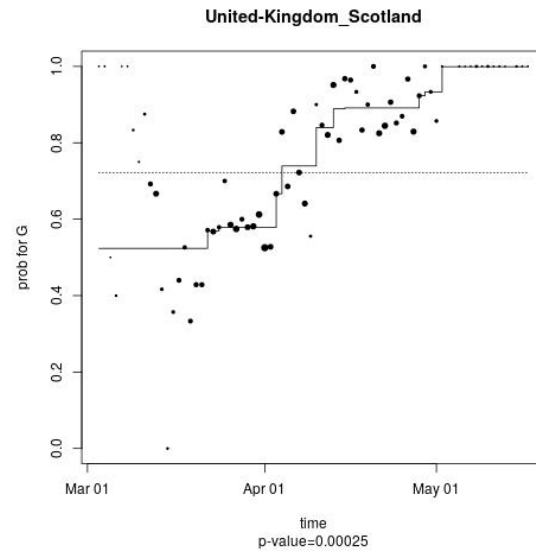
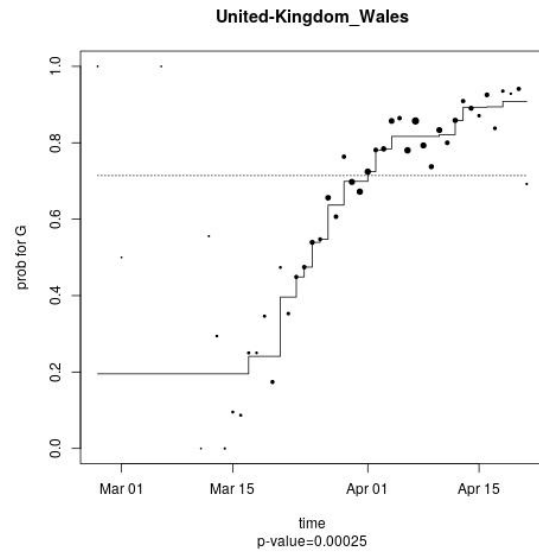
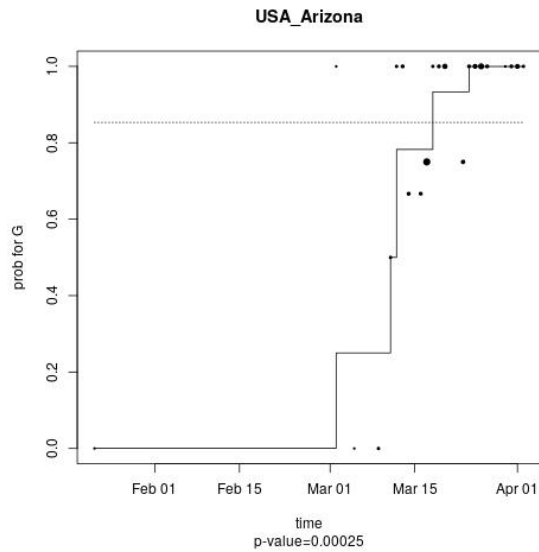
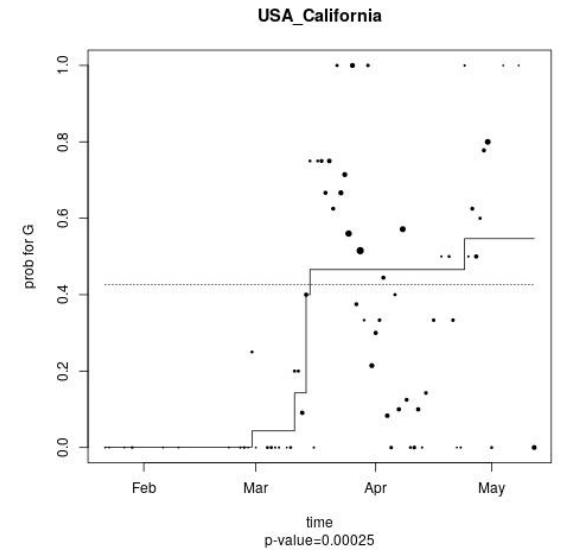
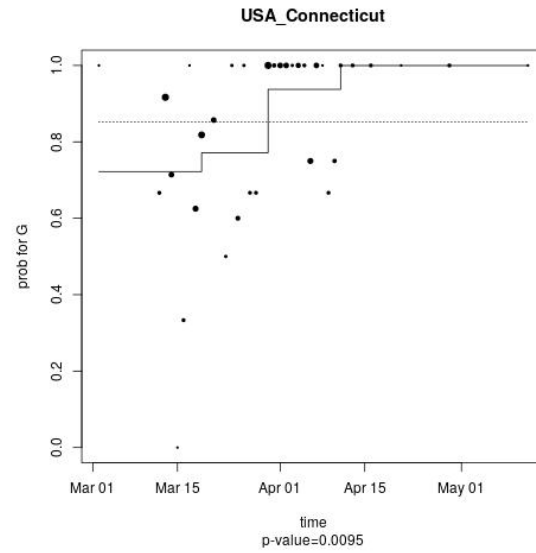
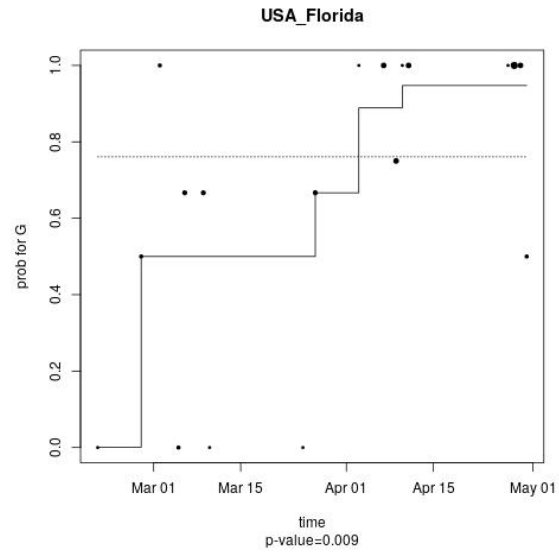
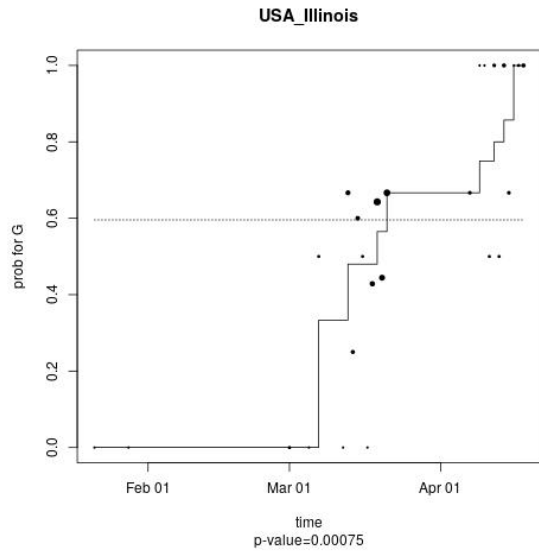


**USA\_Michigan**



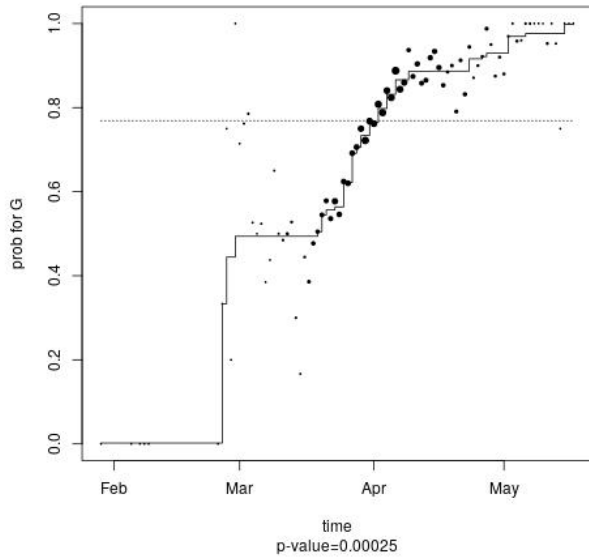


# D614 to G614 Transitions Over Time by Region part 2

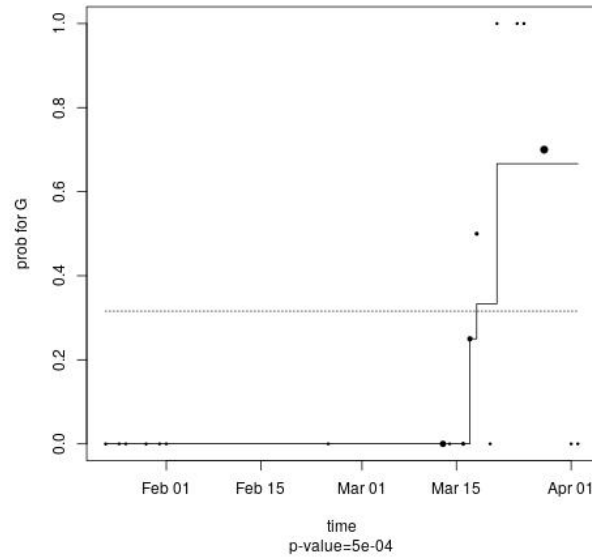


# D614 to G614 Transitions Over Time by Region part 3

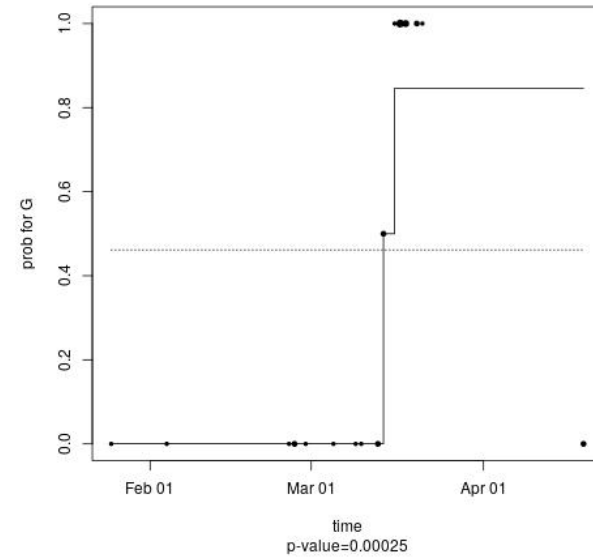
United-Kingdom\_England



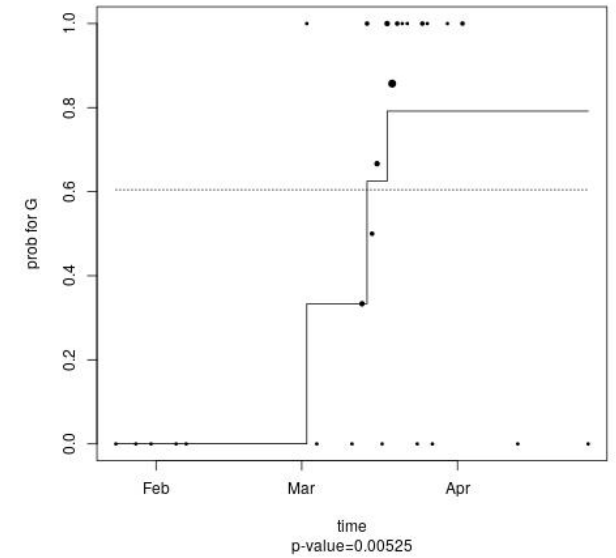
Thailand\_Bangkok



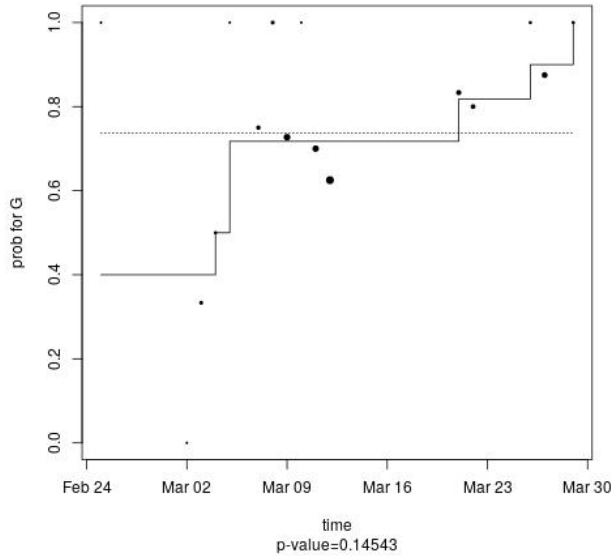
Taiwan-Taoyuan



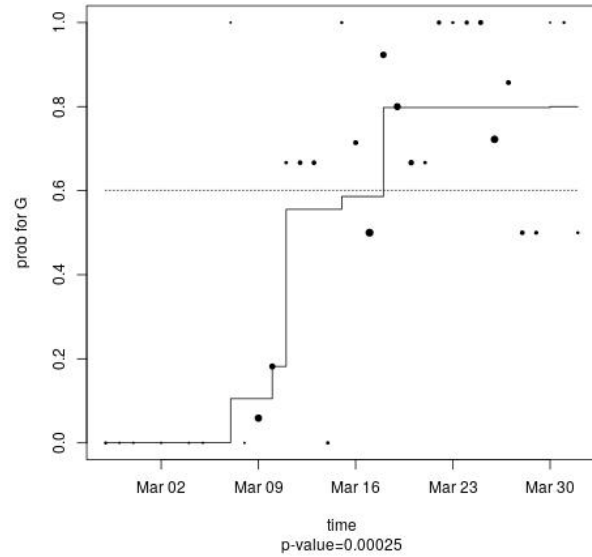
Taiwan\_Taipei



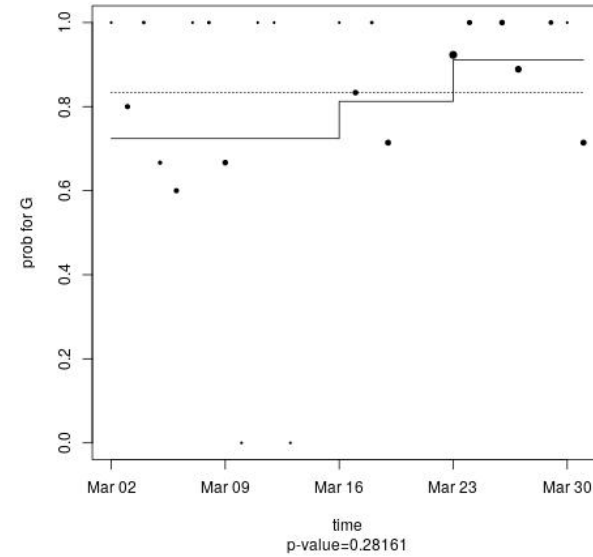
Spain\_Madrid



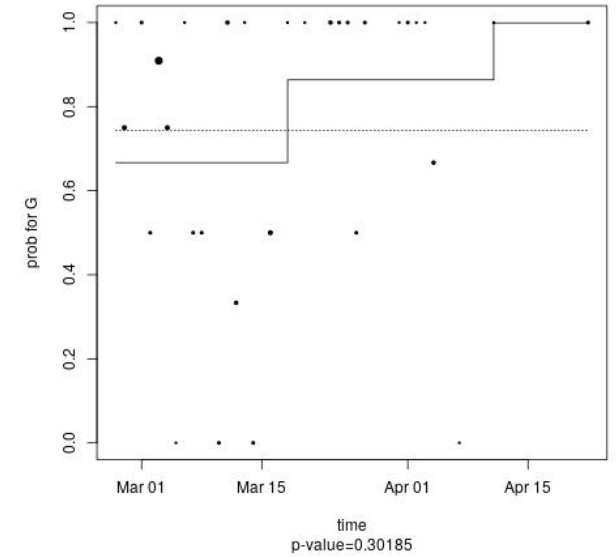
Spain\_Comunitat-Valenciana



Netherlands\_Zuid-Holland

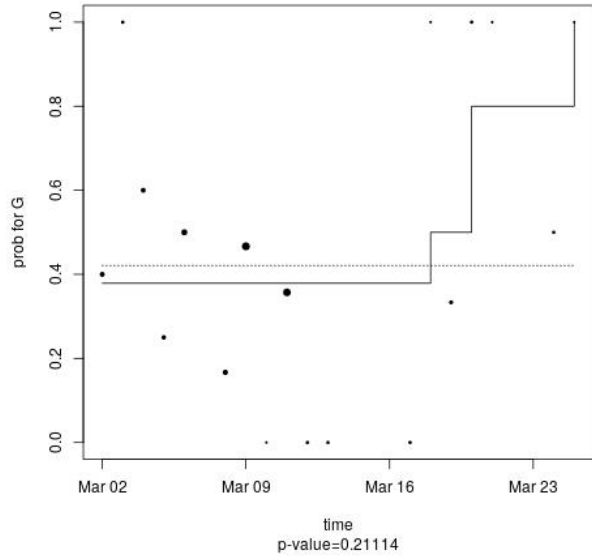


Netherlands\_Utrecht

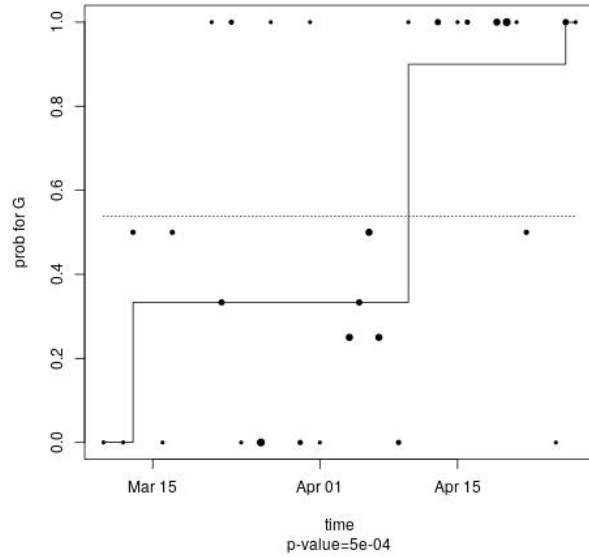


# D614 to G614 Transitions Over Time by Region part 4

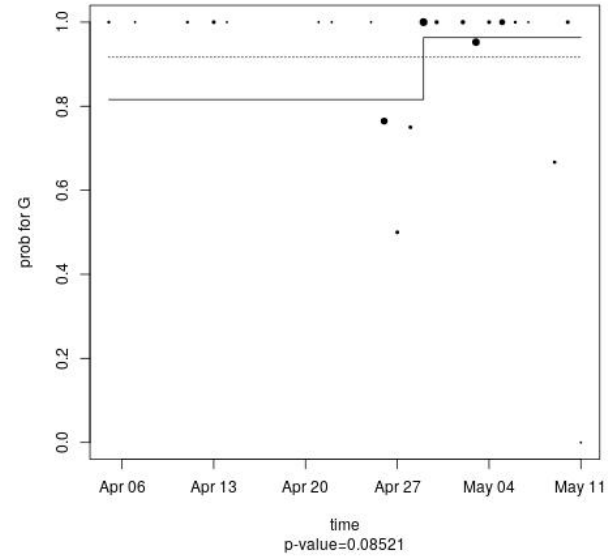
Netherlands\_Noord-Brabant



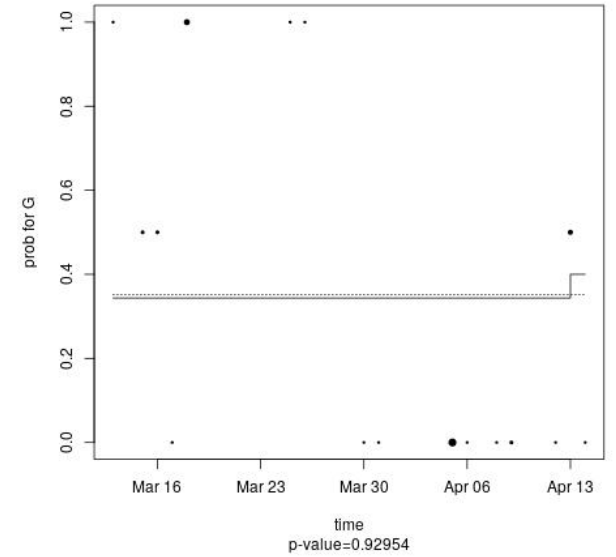
India\_Maharashtra



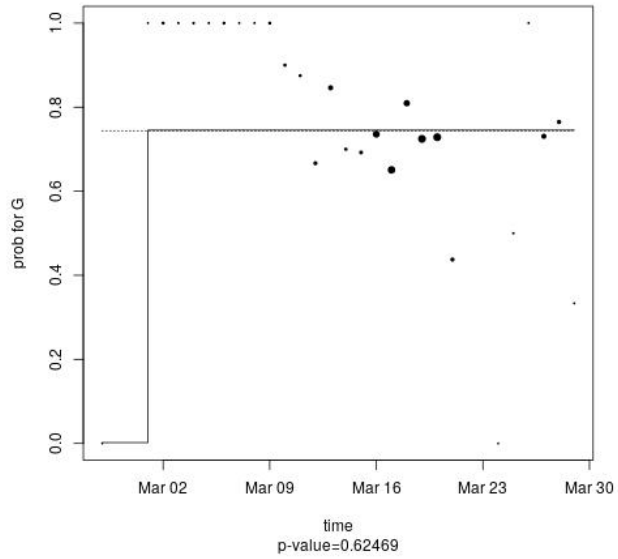
India\_Gujarat



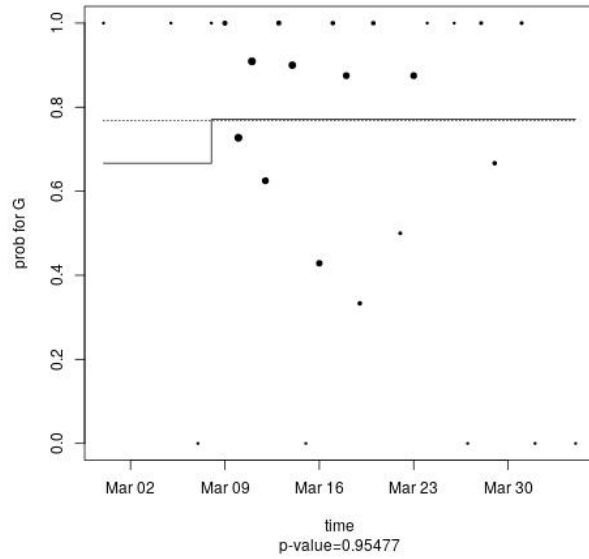
India\_Delhi



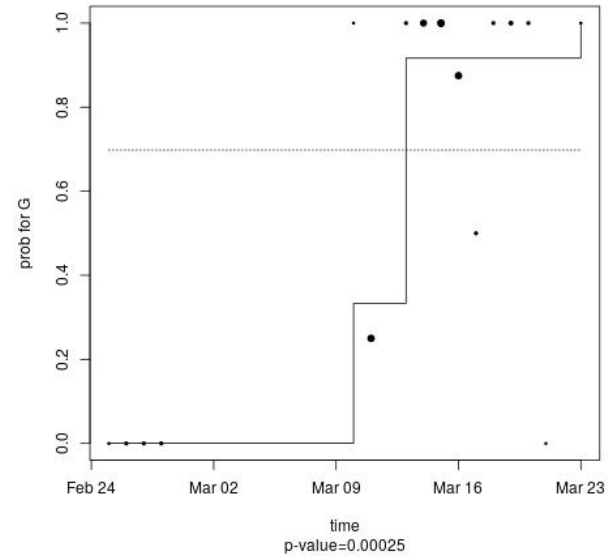
Iceland\_Reykjavik



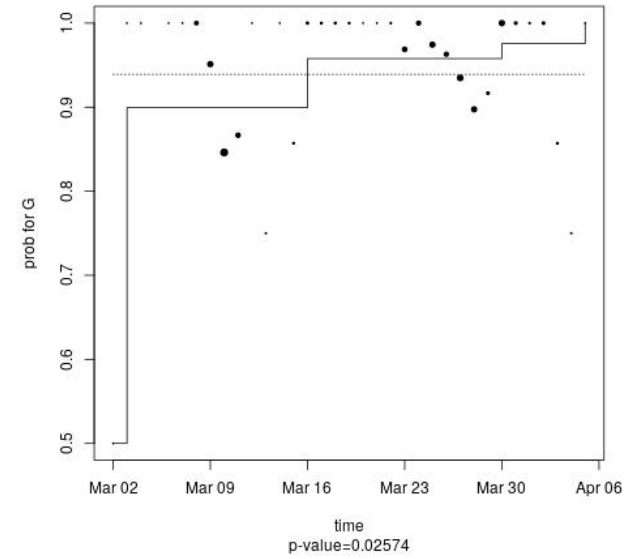
Greece\_Athens



Germany\_North-Rhine-Westphalia

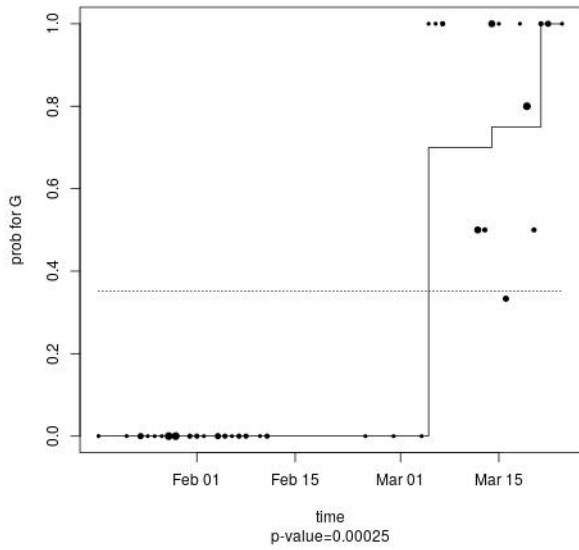


Denmark\_Unknown

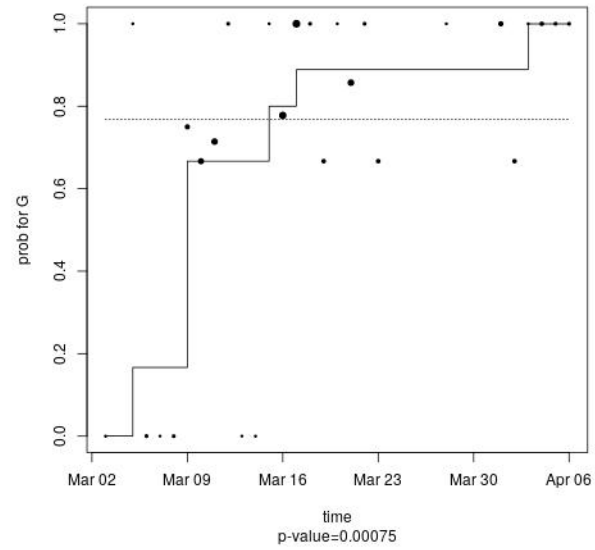


# D614 to G614 Transitions Over Time by Region part 5

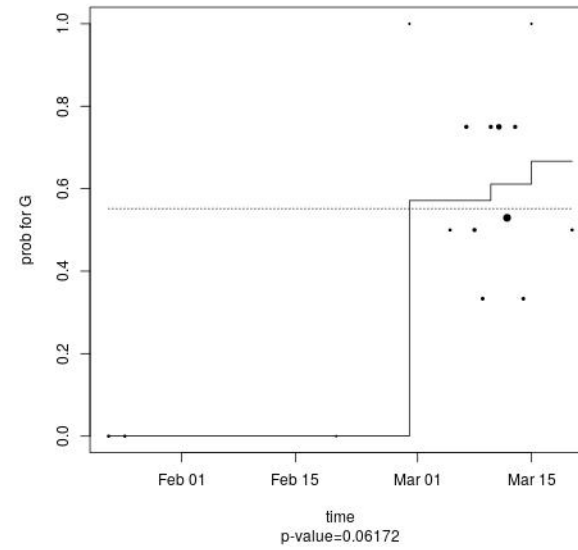
China\_Beijing



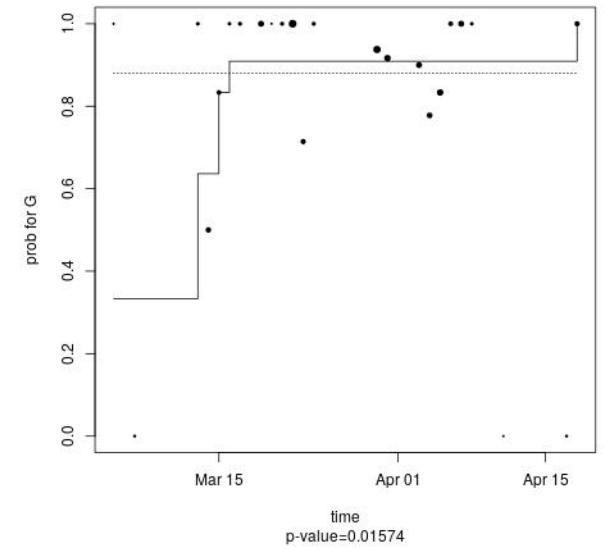
Chile\_Santiago



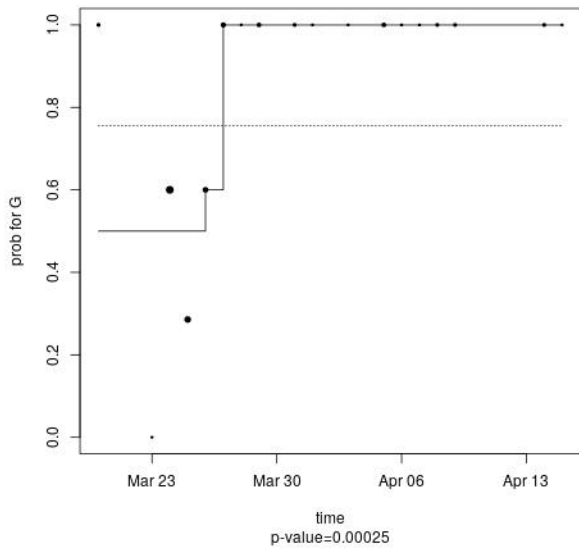
Canada\_Ontario



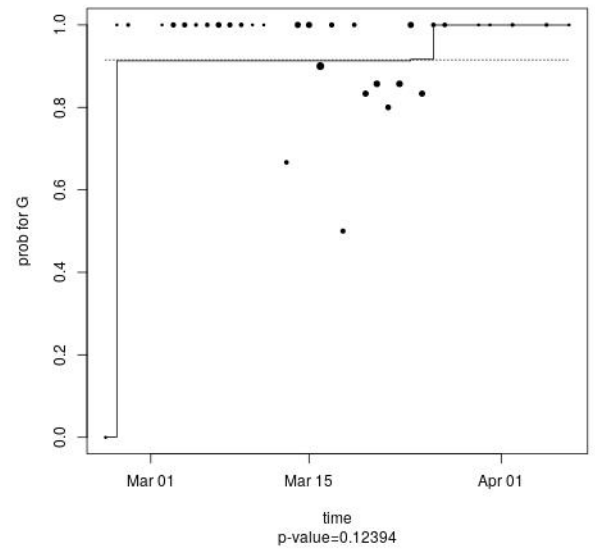
Belgium\_Liege



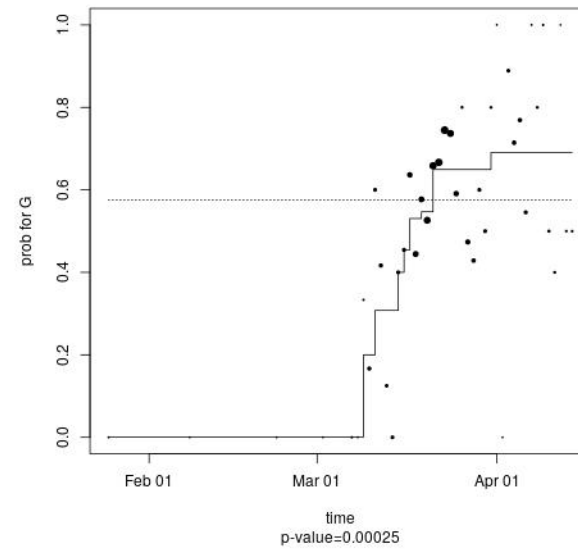
Belgium\_Ghent



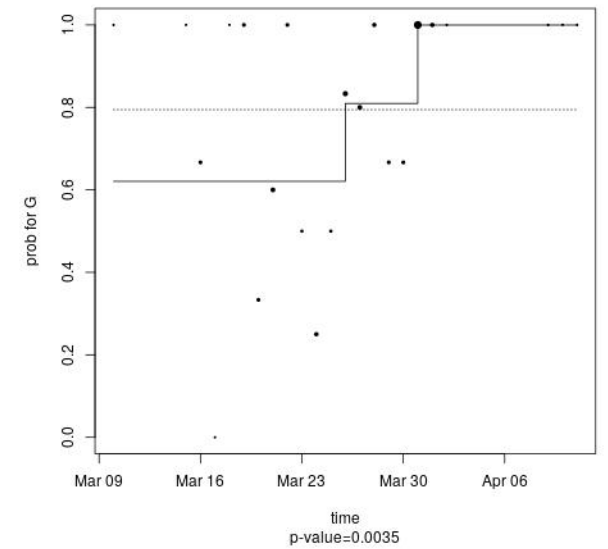
Austria\_Vienna



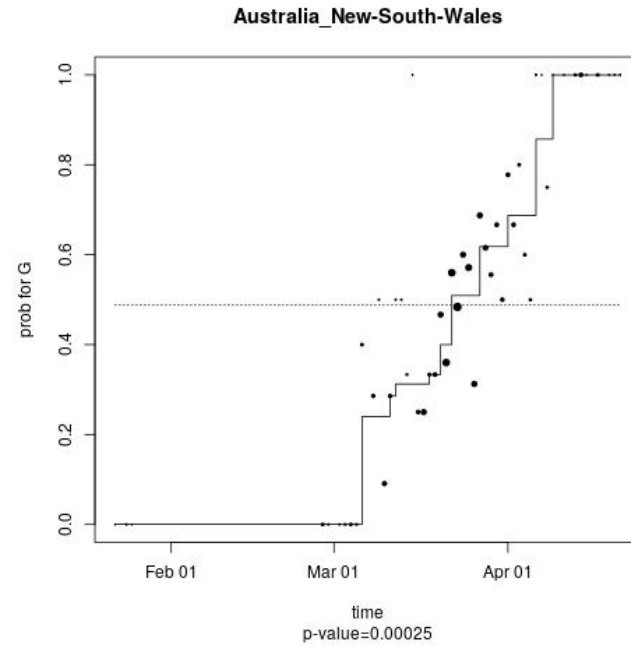
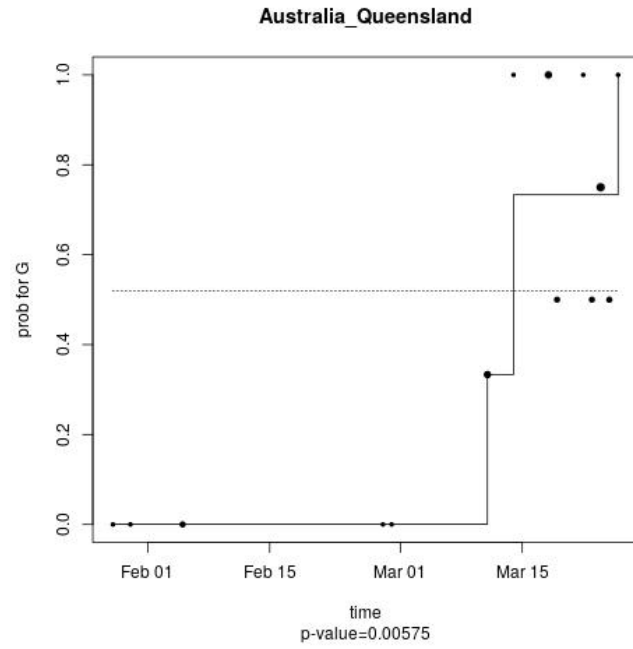
Australia\_Victoria



Australia\_South-Australia

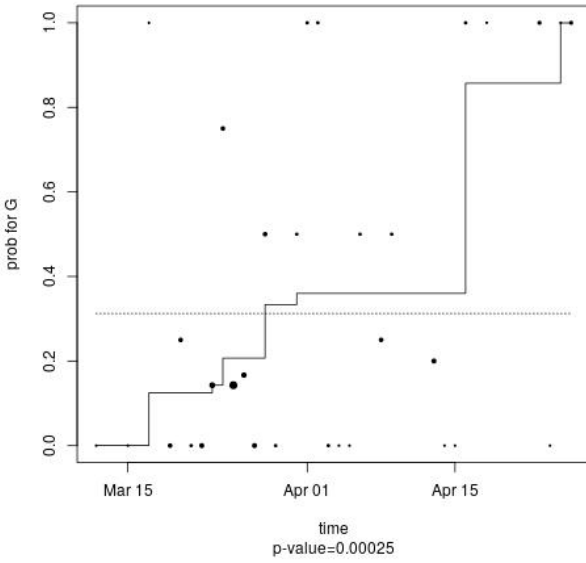


# D614 to G614 Transitions Over Time by Region part 6

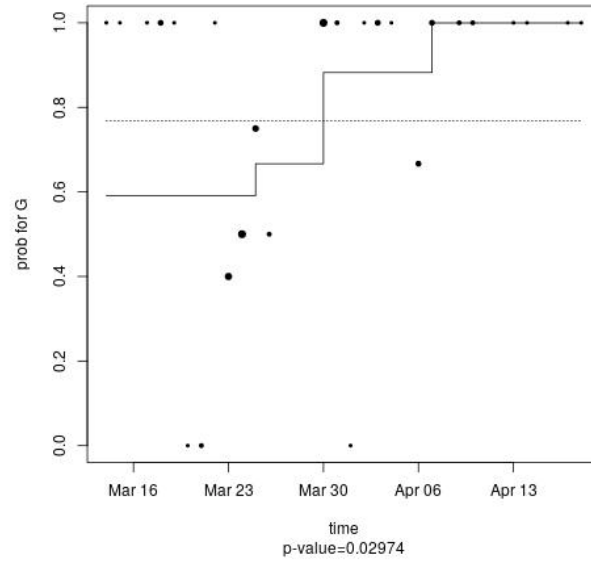


# D614 to G614 Transitions Over Time by City Part 1

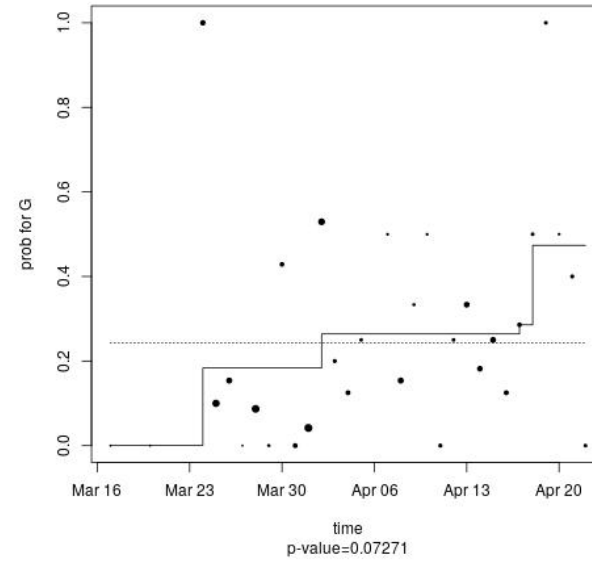
USA\_Wisconsin\_Milwaukee



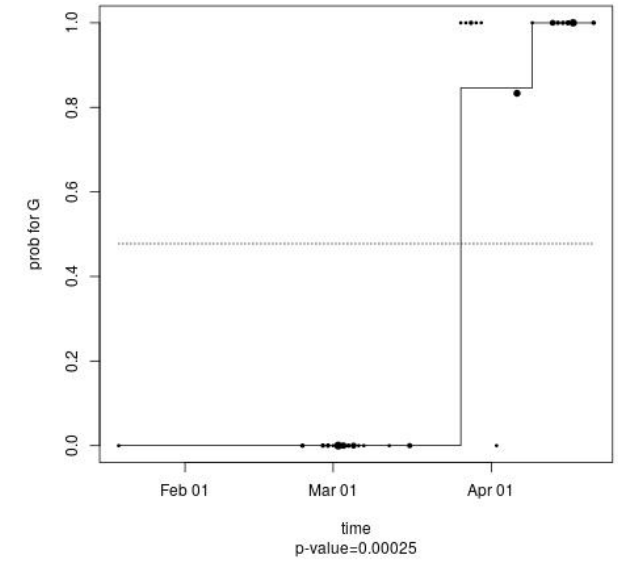
USA\_Wisconsin\_Madison



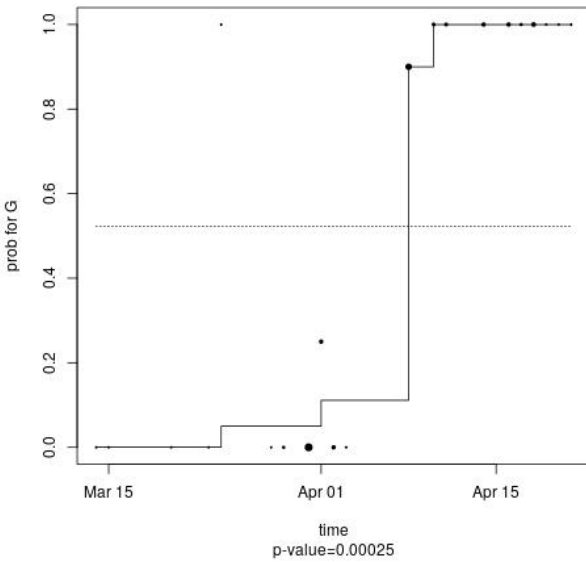
USA\_Washington\_Yakima



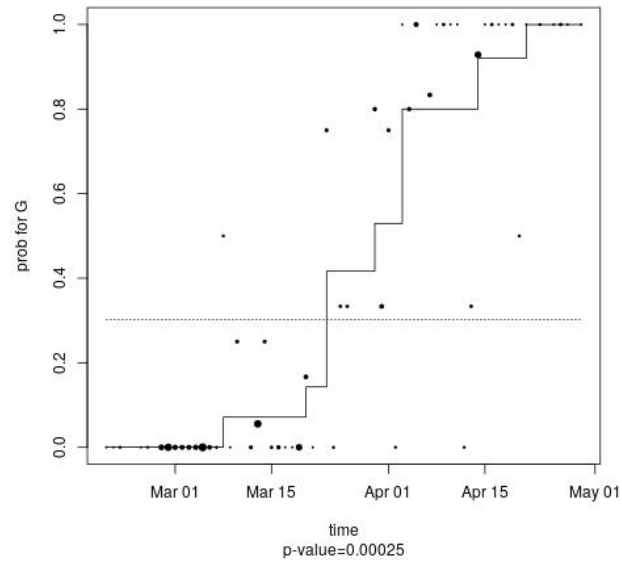
USA\_Washington\_Snohomish



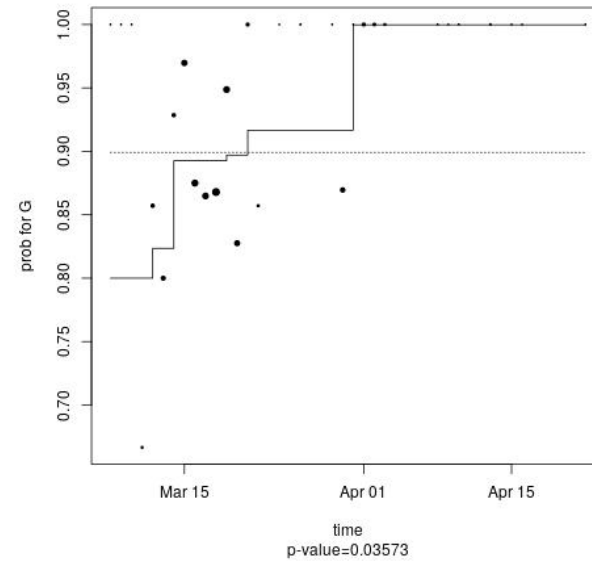
USA\_Washington\_Pierce



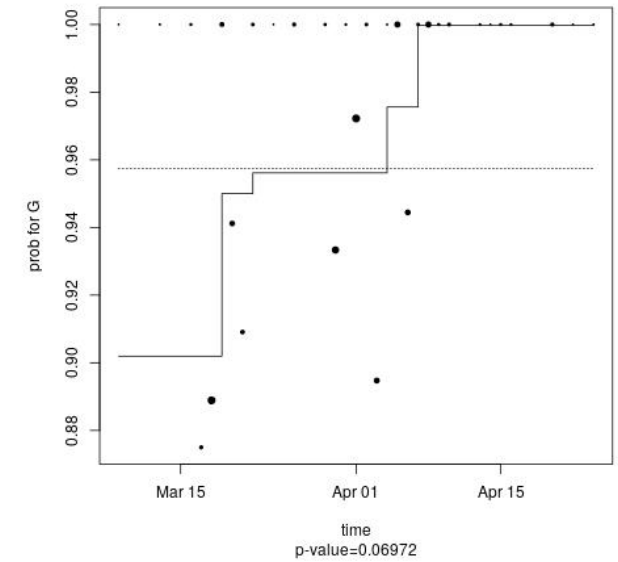
USA\_Washington\_King



USA\_New-York\_Manhattan

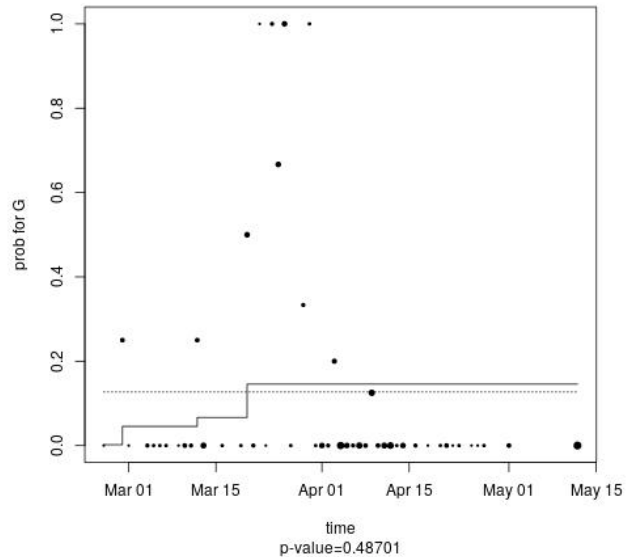


USA\_New-York\_Brooklyn

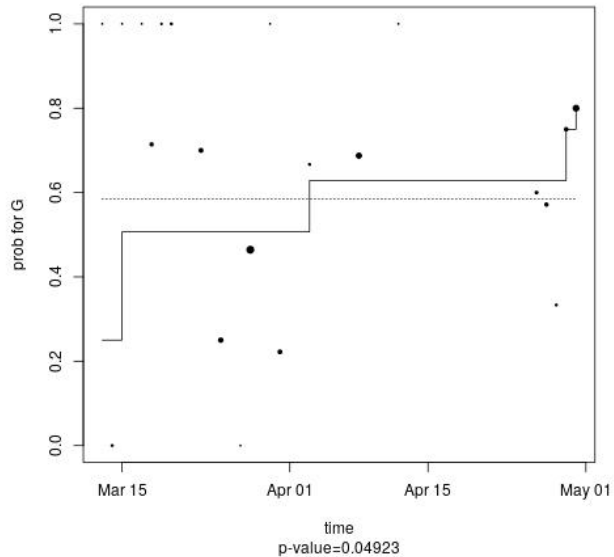


# D614 to G614 Transitions Over Time by City Part 2

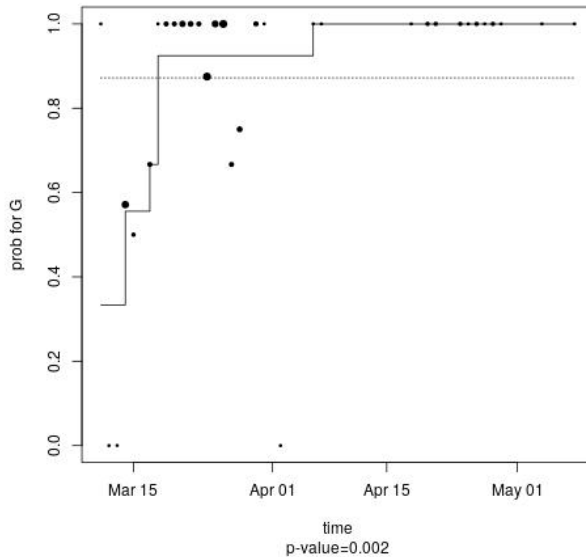
USA\_California\_Santa-Clara



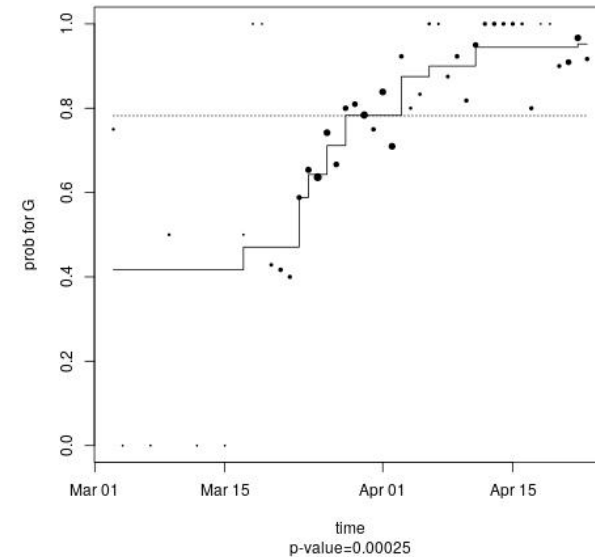
USA\_California\_San-Francisco



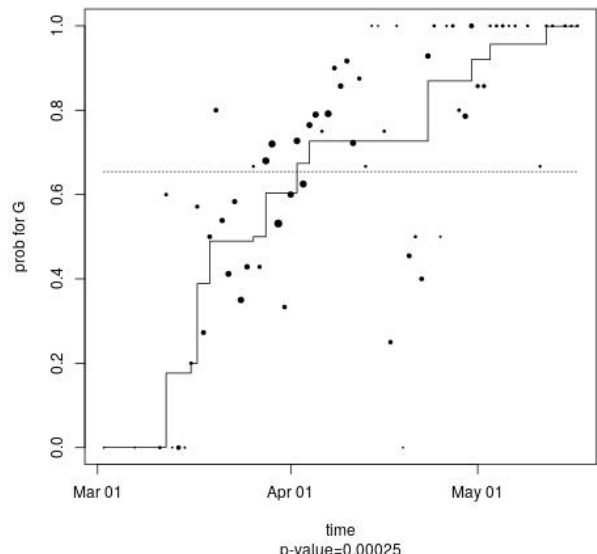
USA\_California\_San-Diego



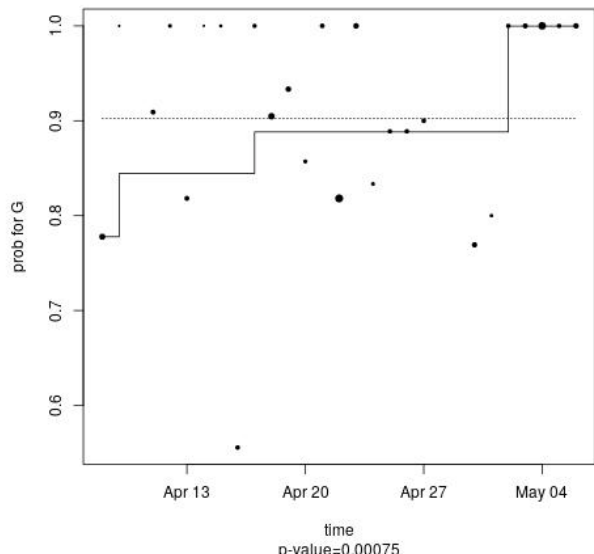
United-Kingdom\_England\_SHEF



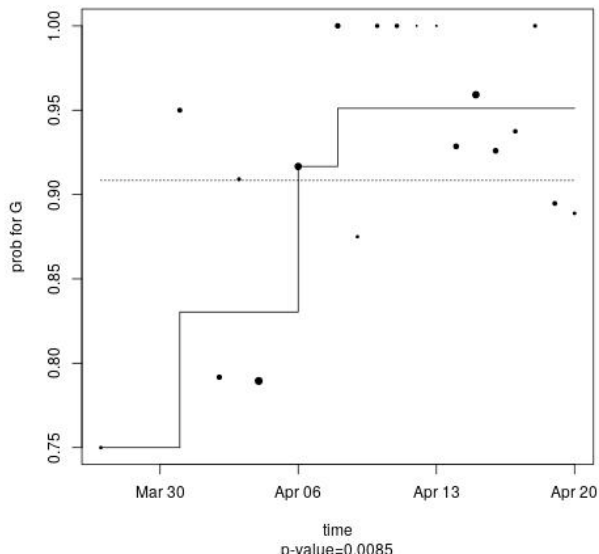
United-Kingdom\_England\_NOTT



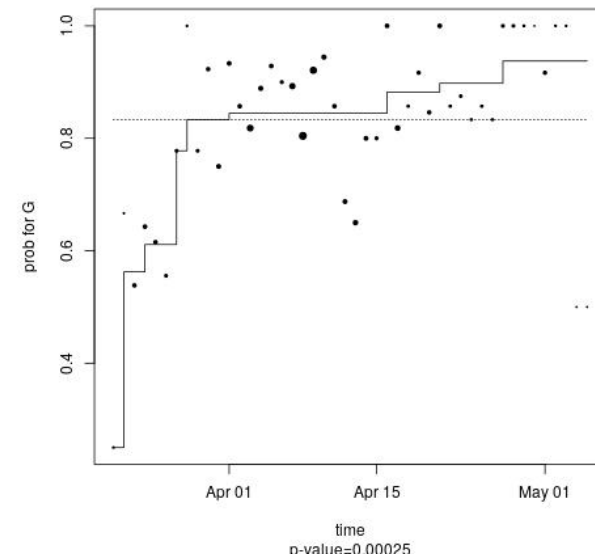
United-Kingdom\_England\_NORW



United-Kingdom\_England\_LOND



United-Kingdom\_England\_LIVE



# D614 to G614 Transitions Over Time by City Part 3

