Table 1: Model deviance with the percentage of deviance explained by predictor variable

Model	Deviance	Percentage of deviance explained							
Filoviridae									
NULL	1891.41	0							
Binomial	839.24	65							
ZIB	764.38	69							
Binomial.iCAR	268.52	100							
ZIB.iCAR	267.14	100							
Coronaviridae									
NULL	1889.18	0							
Binomial	629.11	69							
ZIB	548.47	74							
Binomial.iCAR	63.09	100							
ZIB.iCAR	67.01	100							
Henipavirus									
NULL	1862.74	0							
Binomial	635.28	70							
ZIB	627.49	71							
Binomial.iCAR	113.44	100							
ZIB.iCAR	116.76	100							

Table 2: Empirical mean and standard deviation including standard error of the mean and quantiles for each variable. The significant variables are highlighted.

Empirical mean and standard deviation for each variable plus standard error of the mean and quantiles ZIB iCAR filoviridae outbreak model											
Variable	Mean	SD	Naive SE	Time-series SE	2.50%	25%	50%	75%	97.50%		
beta.(Intercept)	-5.01	0.34	0.01	0.03	-5.67	-5.24	-5.01	-4.77	-4.31		
beta.tmin	2.50	0.54	0.01	0.06	1.41	2.14	2.49	2.87	3.62		
beta.tmax	-1.27	0.42	0.01	0.04	-2.13	-1.55	-1.26	-0.98	-0.48		
beta.precipitation	1.50	0.27	0.01	0.03	1.01	1.31	1.49	1.67	2.05		
beta.land cover	-0.62	0.23	0.01	0.02	-1.04	-0.77	-0.62	-0.45	-0.16		
beta.altitude	1.32	0.39	0.01	0.04	0.59	1.06	1.30	1.57	2.14		
beta.lc_modification	1.16	0.23	0.01	0.02	0.75	1.00	1.15	1.33	1.64		
beta.population density	1.37	0.51	0.01	0.03	0.48	1.00	1.33	1.70	2.50		
gamma.(Intercept)	814.89	620.53	13.88	9.43	37.19	339.15	694.18	1159.63	2390.27		
Vrho	9.90	0.07	0.00	0.01	9.75	9.85	9.92	9.96	10.00		
Deviance	267.14	19.04	0.43	1.65	231.46	254.56	266.45	279.73	305.03		
ZIB iCAR coronaviridae ou	ıthreak mo	del									
Variable	Mean	SD	Naive SE	Time-series SE	2.5%	25.0%	50.0%	75.0%	97.5%		
beta.(Intercept)	-6.26	0.62	0.01	0.04	-7.58	-6.66	-6.22	-5.82	-5.12		
beta.tmin	4.31	2.63	0.06	0.53	-1.09	2.75	4.35	5.92	9.36		
beta.tmax	-0.99	2.19	0.05	0.38	-5.07	-2.42	-0.97	0.34	3.56		
beta.precipitation	-1.85	0.72	0.02	0.09	-3.21	-2.33	-1.89	-1.37	-0.38		
beta.land cover	-0.26	0.45	0.01	0.02	-1.14	-0.56	-0.27	0.02	0.64		
beta.altitude	2.21	0.66	0.01	0.10	0.95	1.77	2.20	2.63	3.51		
beta.lc modification	2.52	0.56	0.01	0.03	1.47	2.15	2.50	2.90	3.69		
beta.population density	3.76	0.83	0.02	0.06	2.15	3.19	3.75	4.31	5.43		
gamma.(Intercept)	776.97	587.09	13.13	14.20	38.15	320.45	639.27	1123.57	2115.22		
Vrho	9.92	0.05	0.00	0.01	9.84	9.88	9.92	9.96	10.00		
Deviance	59.01	10.23	0.23	0.72	40.72	51.93	58.34	65.40	81.11		
ZIB iCAR Henipavirus outb											
Variable		<u></u>	Naive CE	Time series CF	2 500/	250/	F00/	750/	07.500/		
beta.(Intercept)	-8.27	SD 1.11	Naive SE 0.02	Time-series SE 0.25	2.50% -11.53	-8.84	50% -8.19	75% -7.58	97.50%		
• • • • • • • • • • • • • • • • • • • •		1.11	0.02	0.25	-11.55 -6.26	-6.64 -4.49	-8.19 -3.67	-7.58 -2.88	-0.33 -0.66		
beta.tmin	-3.65	1.14	0.03		-0.26						
beta.tmax	2.35			0.18	-0.02 1.62	1.67	2.35	3.10	4.53		
beta.precipitation	2.41 0.29	0.41 0.27	0.01 0.01	0.04		2.13 0.11	2.43 0.29	2.71 0.47	3.12 0.83		
beta.land cover	-			0.02	-0.23				-4.95		
beta.altitude beta.lc modification	-9.05 2.14	2.42 0.37	0.05 0.01	0.53 0.03	-16.27 1.41	-10.32 1.89	-8.84 2.13	-7.60 2.39	-4.95 2.88		
_	-										
beta.population density	0.00	0.16	0.00	0.01	-0.31	-0.10	0.00	0.11	0.30		
gamma.(Intercept)	817.58	628.34	14.05	18.91	51.19	321.06	676.77	1198.10	2297.75		
Vrho	9.88	0.06	0.00	0.01	9.80	9.83	9.87	9.92	9.99		
Deviance	116.76	12.93	0.29	0.83	93.46	107.92	115.86	124.60	144.91		