

Supplementary Information

Table S1. Date of the Most Recent Sample per Region in Mindanao.

Region	Date of the Most Recent Sample
BARMM	14-Aug-21
Caraga	12-Aug-21
Davao Region	20-Aug-21
Northern Mindanao	21-Aug-21
SOCCKSARGEN	13-Aug-21
Zamboanga Peninsula	21-Aug-21

Table S2. Timeline of Quarantine Measures per Region in Mindanao.

Period	BARMM	Caraga	Davao Region	Northern Mindanao	SOCCKSARGEN	Zamboanga Peninsula
January-May	MGCQ	MGCQ	GCQ	MGCQ	MGCQ	MGCQ
June	MGCQ	MECQ	MECQ	MGCQ	MGCQ	MECQ
July 1-15	MGCQ	GCQ	MECQ	MGCQ	MGCQ	MECQ
July 16-31	MGCQ	GCQ	GCQ*	MGCQ	MGCQ	GCQ*
August	MGCQ	GCQ	GCQ*	MGCQ	GCQ	GCQ*

Table S4. Prior values and distribution of parameters used in the BDSKY and COALSKY models.

Parameter	Prior value or distribution	References
Clock rate	0.0008081	Hadfield et al. (2018)
<i>Become uninfected rate</i>	Normal (20,4); 95% IQR: 12.2 - 27.8	Haw et al. (2020)
Origin	LogNormal (0.35,0.07); 95% IQR: 1.24 - 1.63	Haw et al. (2020)
Reproduction number	LogNormal (0.3,0.7); 95% IQR: 0.34 - 5.32	University of the Philippines (2020)
Sampling Proportion (BARMM)	Uniform (0, 0.00485189)	Upper bound based on the number of samples (57) over reported cases as of 14 Aug 2021 (11,748) (DOH, 2021)
Sampling Proportion (Caraga)	Uniform (0, 0.006547375)	Upper bound based on the number of samples (181) over reported cases as of 12 Aug 2021 (26,881) (DOH, 2021)
Sampling Proportion (Davao Region)	Uniform (0, 0.006499065)	Upper bound based on the number of samples (425) over reported cases as of 20 Aug 2021 (63,086) (DOH, 2021)
Sampling Proportion (Northern Mindanao)	Uniform (0, 0.00366184)	Upper bound based on the number of samples (205) over reported cases as of 21 Aug 2021 (53,525) (DOH, 2021)
Sampling Proportion (SOCCKSARGEN)	Uniform (0, 0.003874768)	Upper bound based on the number of samples (135) over reported cases as of 13 Aug 2021 (32,260) (DOH, 2021)
Sampling Proportion (Zamboanga Peninsula)	Uniform (0, 0.009228176)	Upper bound based on the number of samples (275) over reported cases as of 21 Aug 2021 (29,628) (DOH, 2021)