

Table S2: **Estimated parameters for ZIKV infection when prior distributions with  $\sigma = 2$  are used.** Estimates for the basic reproduction number,  $R_0$ ; the proportion of infected individuals that were reported as suspected cases at sentinel sites; and the total proportion of the population infected (including both symptomatic and asymptomatic cases, with reports following a negative binomial distribution with reporting proportion  $r$  and dispersion parameter  $\phi$ ). Median estimates are given, with 95% credible intervals in parentheses.

Region	$R_0$	Reported (%)	Infected (%)
Tahiti	3.7 (2.6-7.8)	11 (5.7-20)	95 (89-99)
Sous-le-vent	3.9 (2.9-7.4)	11 (8-15)	96 (90-100)
Moorea	4.8 (3.1-11)	7.1 (3.9-12)	97 (91-100)
Tuamotu-Gambier	2.9 (2-8.2)	6.9 (3.4-12)	90 (78-97)
Marquises	2.6 (1.8-4)	9.4 (3-21)	87 (73-96)
Australes	3.1 (2-7.5)	17 (8.1-30)	89 (78-97)