

Supplemental

Table S1. Literature data used in this study (1998–2020).

Year	Investigation Period	Scope of investigation	Species	Total number of land crabs (F=Females, M=Males)
1998–2001	May. 1998–Jul. 2001 (25 nights, 35 daytime; each survey lasted about 2H).	The seaside of Banana Bay (21°55'30"N, 120°49'31"E) 100 x 30 M	<i>Epigrapsus notatus</i>	-
2002	1 Sept.–4 Oct. 2002; each full moon from June to Dec. 2003 [87]		<i>Gecarcoidea lalandii</i>	F = 438, with the highest number in July (n = 188) [87]
2002–2003	1 Sep.–4 Oct. 2002 larval release was from May 2002 to May 2003. Overnight observations carried out three times (26–27 Aug., 26–27 Sep., 25–26 Oct.). started around sunset to 2400H, and during the two weeks following full moon from Jun. to Dec. in 2003[41].		<i>Epigrapsus notatus</i> , Number of ovigerous females	F=47(adult)and 215(smallest), M=248[41].
2004	28 Feb. 2003–20 Feb. 2004			F = 4540, other = 527 [43]
2009	Sampling at the end of each month from Jun. 2008 to Sep. 2009; and coastal forest patrol survey during the breeding season of land crabs, a total of 24 days	21°55'43.1"N, 120°49'38.4"E–21°55'39.4"N, 120°49'43.0"E),	Number of ovigerous females	F=1895
2009	Apr.–Dec. 2009	Data absent	Total number of land crabs	Fuzzy data [59]
2010	26 Jul.–10 Sep. 2010	The seaside of Banana Bay coastal forest (21° 55' 30" N, 120° 49' 31" E) 100*30M	Number of ovigerous land crabs	4072
2010	Jan.–Nov. 2010	A: 21°55'43.1"N, 120°49'38.4"E –21°55'39.4"N, 120°49'43.0"E), B: 21°55'25.2"N, 120°49'58.9"E –21°55'22.6"N, 120°50'00.0"E	Total number of land crabs	Fuzzy data [51]
2015	16 days, 11,13 Jun.; 30,31Jul; 1,2 Aug.; 1,2,7–10 Sep.; 9,27–29 Oct., 2015	100 m off the coastal forest (21°55'25.2"N, 120°49'58.9"E–21°55'22.6"N, 120°50'00.0"E)	Number of ovigerous land crabs	F = 544 [101]
2019	26 Jun.–28 Nov. 2019	39.5 KM to 41.5 KM: the mountainside of Banana Bay coastal forest	Number of ovigerous land crabs and roadkill land crabs	Road kill $n = 3210$ / ovigerous land crabs, $n = 802$
2020	May 2019–Oct. 2020	Sample Area A is 150 m long and is the seaside of TPA 26 section 38.95 KM to 39.1 KM. Sample Area B is 200 m long and is the seaside of TPH 26 section 39.75 KM to 39.95 KM [53]	All land crabs and roadkill land crabs [53]	Area A, ovigerous land crabs, $n = 200$; Area B, ovigerous land crabs, $n = 1295$ [53]