**Table S5.** Comparison of species occurrences among recent records

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Family name | Species name | Habitat type | Dai *et al*., 2009 | Liou, 2013 | This study |
| Camptandriidae | *Baruna sinensis* | mud |  |  | ⌾ |
| Dotillidae | *Ilyoplax tansuiensis* | mud |  |  | ⌾ |
|  | *Scopimera bitympana* | sand |  | ⌾ | ⌾ |
|  | *Scopimera intermedia* | sand |  |  | ⌾ |
|  | *Tmethypocoelis ceratophora* | sand |  |  | ⌾ |
| Eriphiidae | *Eriphia ferox* | reef | ⌾ | ⌾ | ⌾ |
|  | *Eriphia sebana* | reef |  |  | ⌾ |
| Gecarcinidae | *Cardisoma carnifex* | coastal forest |  |  | ⌾ |
| Grapsidae | *Grapsus albolineatus* | reef | ⌾ | ⌾ | ⌾\* |
|  | *Metopograpsus thukuhar* | reef | ⌾ | ⌾ | ⌾ |
|  | *Pachygrapsus minutus* | reef |  | ⌾ |  |
| Macrophthalmidae | *Chaenostoma orientale* | reef |  |  | ⌾ |
|  | *Macrophthalmus banzai* | sand/mud |  |  | ⌾ |
| Matutidae | *Matuta victor* | sand/mud |  | ⌾ | ⌾ |
| Mictyridae | *Mictyris brevidactylus* | sand/mud | ⌾ | ⌾ | ⌾ |
| Ocypodidae | *Austruca lactea* | sand/mud |  | ⌾ | ⌾ |
|  | *Austruca triangularis* | sand/mud |  |  | ⌾ |
|  | *Gelasimus borealis* | sand/mud |  |  | ⌾ |
|  | *Gelasimus tetragonon* | sand/mud |  | ⌾ |  |
|  | *Ocypode ceratophthalmus* | sand |  | ⌾ | ⌾ |
|  | *Ocypode sinensis* | sand |  | ⌾ | ⌾ |
|  | *Ocypode stimpsoni* | sand | ⌾ |  | ⌾ |
|  | *Paraleptuca crassipes* | sand/mud |  |  | ⌾ |
|  | *Tubuca arcuata* | sand/mud |  | ⌾ | ⌾ |
| Oziidae | *Epixanthus frontalis* | reef |  |  | ⌾ |
|  | *Ozius rugulosus* | reef |  |  | ⌾ |
| Percnidae | *Percnon planissimum* | reef |  | ⌾ |  |
| Percnidae | *Percnon guinotae* | reef |  | ⌾ |  |
| Plagusiidae | *Plagusia squamosa* | reef |  | ⌾ |  |
| Portunidae | *Carupa tenuipes* | reef |  | ⌾ | ⌾ |
|  | *Charybdis annulata* | reef | ⌾ | ⌾ | ⌾ |
|  | *Charybdis feriatus* | reef |  |  | ⌾ |
|  | *Charybdis lucifera* | sand/mud | ⌾ | ⌾ | ⌾ |
|  | *Charybdis orientalis* | reef |  |  | ⌾ |
|  | *Portunus sanguinolentus* | reef |  |  | ⌾ |
|  | *Scylla paramamosain* | sand/mud |  |  | ⌾ |
|  | *Thalamita picta* | reef | ⌾ | ⌾ |  |
|  | *Thranita crenata* | reef |  | ⌾ | ⌾ |
|  | *Thranita danae* | reef | ⌾ | ⌾ | ⌾ |
|  | *Thranita pelsarti* | reef |  | ⌾ |  |
|  | *Thranita prymna* | reef |  | ⌾ |  |
| Sesarmidae | *Chiromantes haematocheir* | coastal forest |  | ⌾ | ⌾ |
|  | *Nanosesarma minutum* | reef |  |  | ⌾ |
|  | *Orisarma dehaani* | coastal forest |  | ⌾ | ⌾ |
|  | *Parasesarma affine* | mud |  | ⌾ |  |
|  | *Parasesarma bidens* | sand/mud |  | ⌾ | ⌾ |
|  | *Parasesarma pictum* | rocky |  | ⌾ | ⌾ |
|  | *Parasesarma tripectinis* | rocky |  |  | ⌾ |
| Varunidae | *Chasmagnathus convexus* | mud |  | ⌾ | ⌾ |
|  | *Eriocheir japonica* | stream |  |  | ⌾ |
|  | *Gaetice depressus* | rocky/reef | ⌾ | ⌾ | ⌾ |
|  | *Helicana doerjesi* | mud |  |  | ⌾ |
|  | *Helice formosensis* | mud |  | ⌾ | ⌾ |
|  | *Hemigrapsus penicillatus* | rocky |  | ⌾ | ⌾ |
|  | *Hemigrapsus sanguineus* | rocky |  | ⌾ | ⌾ |
|  | *Metaplax elegans* | mud |  |  | ⌾ |
|  | *Pseudohelice subquadrata* | sand/mud |  |  | ⌾ |
|  | *Varuna litterata* | stream |  |  | ⌾ |
| Xanthidae | *Atergatis integerrimus* | reef |  | ⌾ | ⌾ |
|  | *Chlorodiella nigra* | reef |  | ⌾ | ⌾ |
|  | *Etisus laevimanus* | reef |  | ⌾ |  |
|  | *Leptodius affinis* | reef | ⌾ | ⌾ | ⌾ |
|  | *Leptodius gracilis* | reef |  | ⌾ |  |
|  | *Leptodius sanguineus* | reef |  | ⌾ |  |

\*: In this study, it was found on the tetrapods.