

## Ostracods surface species in Kagoshima Bay and their distribution

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### ■ Introduction

Kagoshima Bay is located in the southern part of Kyushu, Japan and is elongate and southward-opening with a length of about 75 km from north to south and a width of about 25 km (Fig. 1). The bay is an area of volcanic activity of Sakurajima volcano under the influence of the Kuroshio Current. Most of the Head environment is occupied by an acidic water mass as result of the submarine fumarolic activity.

Ecological analysis of benthonic foraminifera and sedimental environments in Kagoshima Bay was reported by Oki (1989). Subsequently, the relationships between ostracod populations and different marine environmental parameters in Kagoshima Bay were published by Bodergat et al. (2002a, b, 2006).

### ■ Ostracod surface species in Kagoshima Bay

Two years ago, Japanese scientists working on ostracodes requested to us to publish about the number of individuals of species at each station in Kagoshima Bay for comparing with those from the other stations around Japan. Before 2002 we made a table of the occurrence of ostracodes for basic data but it was impossible to show this huge table in the scientific articles mentioned above. So we provide a table of the occurrence of ostracod surface species and their distribution in Kagoshima Bay through this article (Table 1). Sampling stations and brief submarine topography are shown in Figure 1.

The bottom samples used for our studies were collected from 146 stations using the research vessel *Keiten-maru* owned by the Faculty of Fisheries, Kagoshima University. Furthermore other bottom

samples were taken from Kagoshima Bay using *Keiten-maru* and *Nansei-maru* from 1972 to 2015 for researches on the sedimental environments of the bay. Main articles are shown as follows: Oki and Hayasaka (1978); Oki (1989, 1990, 2001); Tomiyasu et al. (2007, 2015).

### ■ Acknowledgements

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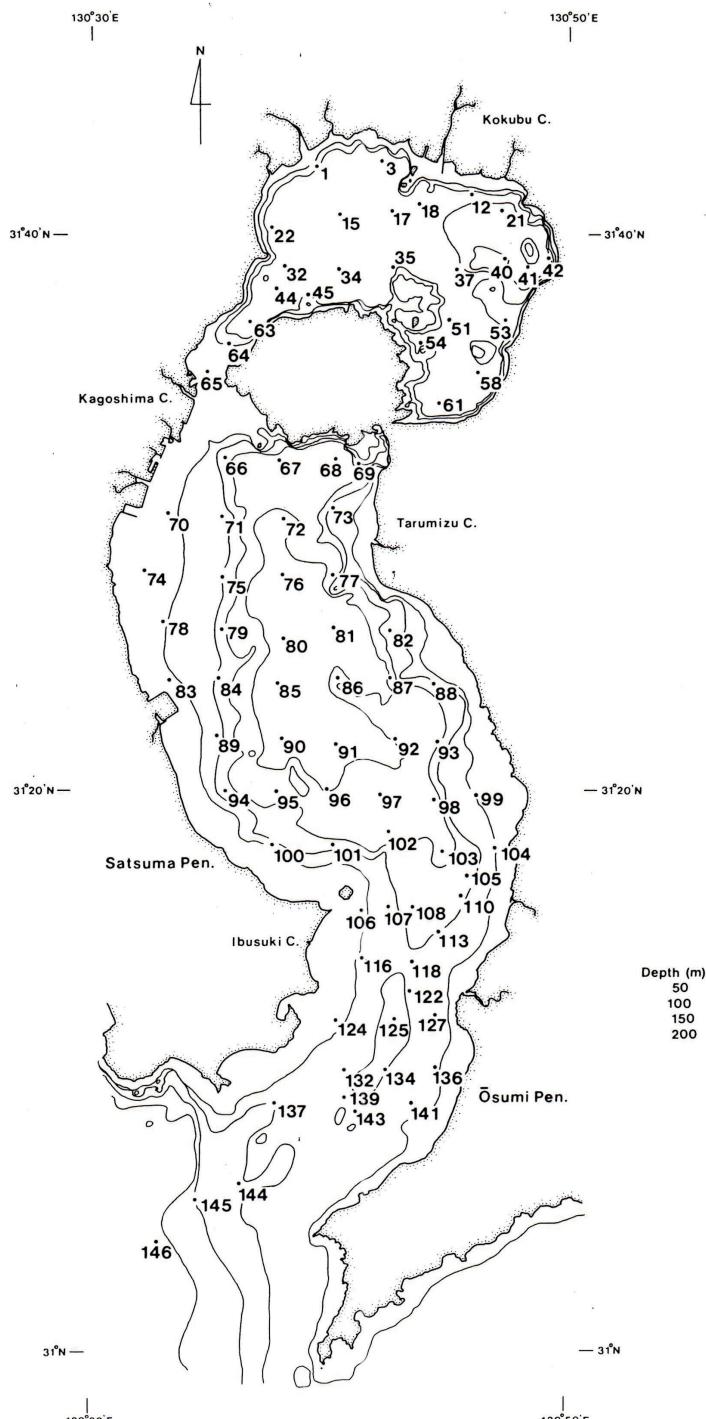


Fig. 1. Sampling stations in Kagoshima Bay. Isobaths at 50 m intervals.

Tomiyasu, T., Eguchi, T., Yamamoto, M., Anazawa, K., Sakamoto, H., Ando, T., Nedachi, M. and Marumo, K., 2007, Influence of submarine fumaroles on the distribution of mercury in the sediment of Kagoshima Bay, Japan. *Marine Chemistry*, 107: 173–183.

Tomiyasu, T., Minato, T., Gamboa Ruiz, W. L., Kodamatani, H., Kono, Y., Hidaka, M., Oki, K., Kanzaki, R., Taniguchi, Y. and Matsuyama, A., 2015, Influence of submarine fumaroles on the seasonal changes in mercury species in the waters of Kagoshima Bay, Japan. *Marine Chemistry*, 177: 763–771.

Table 1. Occurrence of the ostracods in Kagoshima Bay.

	Sampling site	146	145	144	143	141	139	137	136	134	132	127	125	124	122	118	116	113	110	108	107	106	105	104	103	102	101	100	99	98	97	96	95
Species	Water depth (m)	213	155	105	96	60	105	106	60	112	100	74	140	20	100	101	61	100	110	120	96	40	97	38	175	162	119	75	42	145	170	188	170
<i>Abrocythereis ryukyuensis</i>	3	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Abrocythereis</i> sp.	0	0	0	2	0	0	0	0	0	5	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Acanthocythereis</i> sp.1	0	0	0	2	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Actinocythereis kisarazuensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Actinocythereis</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Ambtonia obai</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1	0	1	3	
<i>Argilloecia cf. parallela</i>	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4	0	3	0	0	0	0	
<i>Argilloecia hanai</i>	0	0	1	11	0	1	7	0	2	21	0	0	3	1	0	2	10	0	1	0	0	0	1	1	0	1	0	0	1	0	0	0	
<i>Argilloecia lunata</i>	5	4	0	0	5	3	1	0	0	19	1	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
<i>Argilloecia symmetrica</i>	0	0	0	0	9	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	
<i>Argilloecia toyamaensis</i>	4	0	0	0	13	0	0	2	0	2	0	0	0	5	0	1	0	0	2	0	0	1	0	0	0	0	0	0	1	1	0	0	
<i>Aurila cf. inabai</i>	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Aurila corniculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Aurila cymba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	10	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Aurila hatai</i>	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	0	0	0	0	0	0	0	0	0	0	
<i>Aurila inabai</i>	0	0	0	0	14	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	1	0	0	2	3	9	0	0	0	0	0	
<i>Aurila kiritsubo</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Aurila munechikai</i>	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Aurila okayamensis</i>	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Aurila</i> sp. 2	0	0	0	0	0	0	0	0	0	5	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
<i>Aurila</i> sp. 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Aurila uranouchiensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	
<i>Basslerites longisculpta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Bicornucythere bisanensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Bradleya japonica</i>	9	1	1	5	0	1	0	0	1	3	5	3	0	6	2	0	3	0	5	0	0	0	0	0	2	4	0	0	1	1	0		
<i>Bythoceratina cassidoidea</i>	5	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Bythocerateria cf. hanai</i>	0	2	0	2	0	0	1	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	
<i>Bythocypris affinis affinis</i>	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Bythocypris pacifica</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Callistocythere asatica</i>	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Callistocythere undulatifacialis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
<i>Callistocythere japonica</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Callistocythere subjaponica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	
<i>Callistocythere undulatifacialis</i>	0	2	0	0	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	1	0	0	1	6	0	0	0	0	0	
<i>Cardobairdia</i> sp.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Chejudoecythere higashikawai</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	
<i>Cletocythere bradyi</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Coquimba ishizakii</i>	1	3	0	1	0	0	0	0	0	4	0	2	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	
<i>Coquimba subgibba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	
<i>Coquimba cf. equa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Cornucoquimba tosaensis</i>	2	1	0	6	3	2	4	0	1	6	0	0	3	0	0	2	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
<i>Cypridopsis?</i> sp.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
<i>Cyprinotus</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Cythere nishinipponica</i>	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Cytherelloidea sabahensis</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Cytherelloidea</i> sp.	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Cytheris decorata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Cytheris</i> sp.	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
<i>Cytheropteron hanai</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0	1	3	0	0	0	0	
<i>Cytheropteron miurense</i>	13	2	0	5	9	2	1	0	2	12	1	1	0	3	1	1	1	0	2	0	0	1	0	0	1	3	0	0	0	0	0	0	
<i>Cytheropteron</i> sp. 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Cytheropteron subchui</i>	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Cytheropteron uchitomii</i>	15	0	0	6	1	0</td																											

Table 1. Occurrence of the ostracods in Kagoshima Bay (continued).

Table 1. Occurrence of the ostracods in Kagoshima Bay (continued).

Species	Sampling site		146	145	144	143	141	139	137	137	136	134	132	127	125	124	122	118	116	113	110	108	107	106	105	104	103	102	101	100	99	98	97	96	95
	Water depth (m)	213	155	105	96	60	105	106	60	112	100	74	140	20	100	101	61	100	110	120	96	40	97	38	175	162	119	75	42	145	170	188	170		
<i>Loxoconcha sinensis</i>	0	6	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Loxoconcha</i> sp. 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Loxoconcha</i> sp. 2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Loxoconcha</i> sp. 3	5	2	0	0	1	2	0	0	0	0	0	0	0	0	4	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0		
<i>Loxoconcha</i> sp. B	2	0	0	0	11	0	0	0	0	3	3	0	0	1	0	1	0	4	0	1	0	3	0	0	0	2	13	0	0	0	0	0			
<i>Loxoconcha tosaensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	2	0	0	0	0	3	0	0	0	0	0	0		
<i>Loxoconcha tosmodesta</i>	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Loxoconcha viva</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	2	19	0	0	0	0	0			
<i>Loxocorniculum mutsuensis</i>	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Macrocyprina okinawae</i>	8	8	0	0	0	0	10	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Microcythere</i> sp. 1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Microcythere</i> sp. 2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Mosella tomokoae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Munseyella</i> cf. <i>reticulosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Munseyella</i> sp.	0	0	0	0	1	0	0	0	4	0	0	0	2	3	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Neonesidea oligodentata</i>	79	32	6	14	0	0	2	0	0	1	1	3	2	7	2	0	2	0	3	0	2	0	1	0	0	1	0	0	0	0	0	0	0		
<i>Neonesidea</i> sp.	0	0	1	0	3	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Nipponocythere delicata</i>	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		
<i>Nipponocythere inornata</i>	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Pacambocythere humilitorus</i>	0	0	1	2	0	0	0	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Paibenborchella iocosa</i>	0	0	0	1	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Paracytheridea minaminipponica</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Paracytheridea tschoppii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Paracytheridea</i> cf. <i>extensa</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Paracytheridea</i> sp. 1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Paradoxostoma</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Parakrithella pseudadonta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	3	0	0	0	0	0	0	0	0	0	0	0		
<i>Parakrithella</i> sp. 1	0	0	0	1	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0		
<i>Perissocythereidea bosvoensis</i>	4	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0		
<i>Perissocythereidea retiformis</i>	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	2	0	0	0	0	0	0	0		
<i>Phlyctocythere hamanensis</i>	0	0	0	1	0	0	0	0	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Pistocythere bradyformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Pistocythere bradyi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	13	0	0	0	0	0	0	0	0	0	0	0	
<i>Platymicrocythere</i> sp.	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Polycope</i> cf. <i>dispar</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Polycope</i> sp.	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Pontocythere cf. miurensis</i>	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Pontocythere japonica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Pontocythere sekiguchii</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Pontocythere subjaponica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Pontocythere subtropicalis</i>	3	1	2	0	2	0	1	0	0	2	0	0	0	0	0	0	0	0	0	3	1	0	15	2	0	0	0	0	0	0	0	0	0	1	
<i>Propontocypris</i> cf. <i>paradispar</i>	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Propontocypris</i> <i>crocata</i>	13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Propontocypris</i> <i>japonica</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Pseudocythere</i> cf. <i>moneroni</i>	4	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Pseudocythere</i> <i>frydli</i>	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Pumilocythereidea</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Robustaurila salebrosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Robustaurila</i> sp.	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0		
<i>Saida hirrigi</i>	0	0	0	0	1																														

Table 1. Occurrence of the ostracods in Kagoshima Bay (continued).