diversity

MDPI

Supplementary information

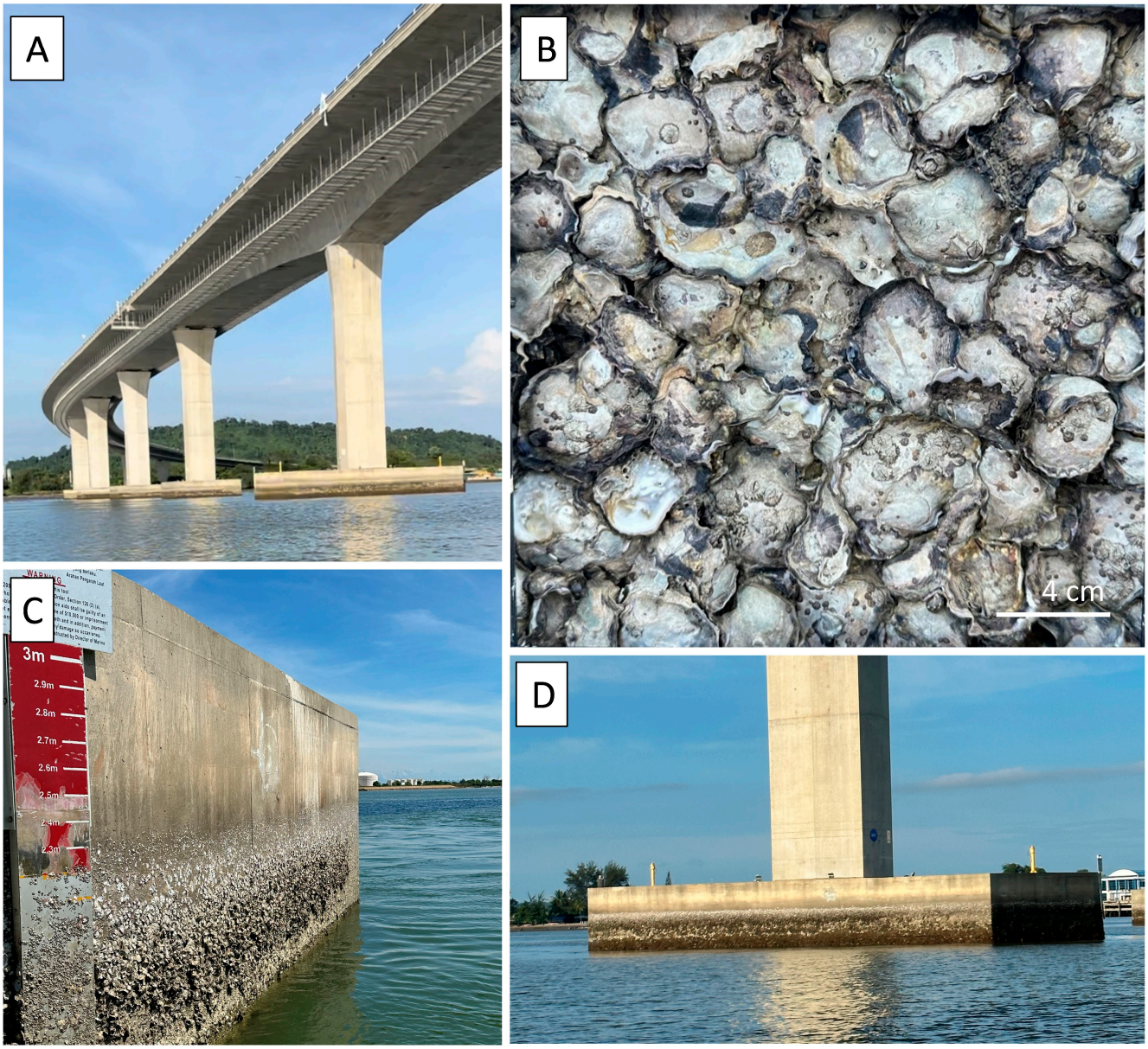


Figure S1. A) Pulau Muara Besar bridge at Muara within Brunei Bay. **B)** Dense and single layered *S. echinata* beds at the embayment. **C)** A section of the embayment walls encrusted with *S. echinata* beds. **D)** The embayment.

Table S1. List of other fauna found associated with oysterbeds, oyster patches or oyster encrusted rocks

No.	Species	Location
	Cnidaria	
1	Actiniidae sp. 3	Oyster Rocks, Bedukang
	Mollusca: Bivalvia	
2	*Arcuatula senhousia*	Jerudong and Serasa mangrove oyster
3	*Isognomon ephippium*	PMB embayment
4	*Lepirodes porulosus*	Oyster Rocks, Bedukang
5	Unresolved bivalve	Tungku breakwaters, PMB embayment
	Mollusca: Gastropoda	
6	*Neripteron spirale*	Jerudong mangrove drain oyster bed
7	*Smaragdinella* sp.	Tungku breakwaters
8	*Trimusculus kurodai*	Jerudong breakwaters
9	Unresolved gastropod	Tungku breakwaters, PMB embayment
	Annelida	
10	Echiura sp.	Tungku breakwaters, PMB embayment
11	*Leocrates* sp.	Oyster Rocks, Bedukang
12	*Phascolosoma* sp.	Oyster Rocks, Bedukang
	Arthropoda: Anomura	
13	*Clibanarius ransonii*	Tungku breakwaters
14	*Polynolyx* aff *hendersoni*	Pelumpong oyster patches
	Arthropoda: Brachyura	
15	*Leptodius sanguineus*	Serasa boulder beach
	Arthropoda: Insecta	
16	Demaptera sp. 1	PMB embayment
17	Demaptera sp. 2	Tungku breakwaters, PMB embayment
	Arthropoda: Malacostraca	
18	Amphipoda sp.	Jerudong breakwaters
19	*Cirolana* sp.	Tungku and Jerudong breakwaters
20	Tanaidacea sp. 1	Tungku breakwaters
21	Tanaidacea sp. 2	Oyster Rocks, Bedukang
22	Sphaeromatidae sp. 1	Tungku and Jerudong breakwaters
23	Sphaeromatidae sp. 2	Tungku and Jerudong breakwaters
24	Sphaeromatidae sp. 3	Tungku and Jerudong breakwaters
	Arthropoda: Collembola	
25	Collembola sp.	Tungku breakwaters
	Arthropoda: Acari	
26	Oribatida sp.	Tungku and Jerudong breakwaters
27	Halacaridae sp.	Tungku breakwaters
	Arthropoda: Cirripedia	
28	Balanidae sp.	Tungku breakwaters
	Phylum Nemertea	
29	Nermertea sp.	Tungku breakwaters and embayment

Table S2: Test of Test of homogeneity of multivariate dispersions using PERMDISP

Deviations from centroid
F: 3.7529 df1: 3 df2:32
P(perm): 0.056

Pairwise comparisons

Groups	t	P(perm)
NS, ES	1.5729	0.191
NS, ABS (T)	0.71614	0.512
NS, ABS (J)	1.5277	0.175
ES, ABS (T)	3.0445	0.009
ES, ABS (J)	4.3748	0.004
ABS (T), ABS (J)	0.98672	0.39

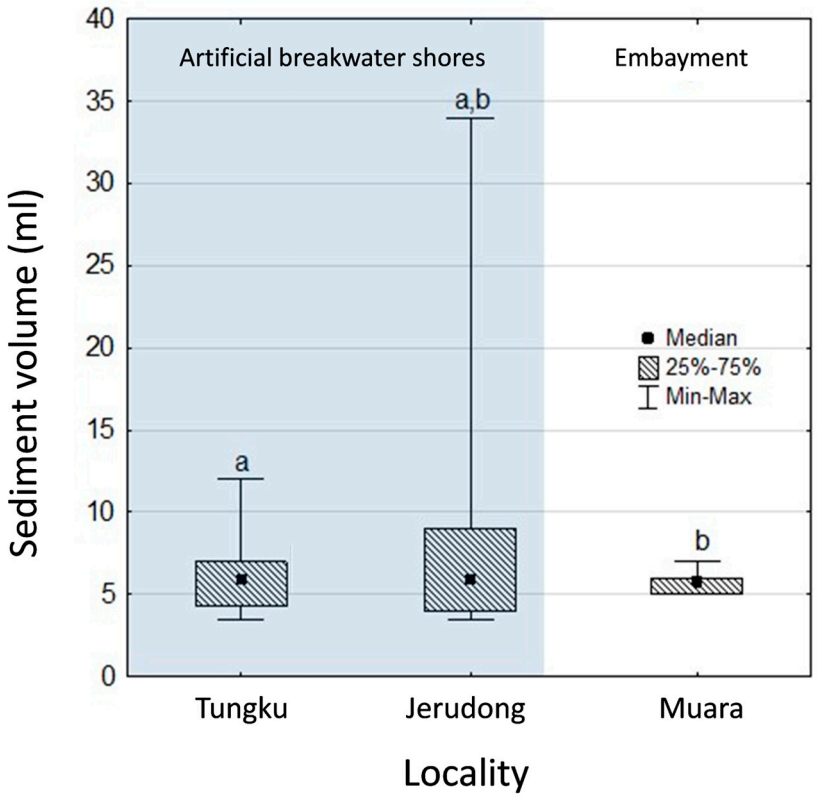


Figure S2. Sediment accumulation in *S. echinata* oyster beds between the artificial breakwaters at Pantai Tungku and Pantai Jerudong, and the embayment at Pulau Muara Besar of Brunei Bay. The 180 μm fraction of the oysterbed samples was measured to give another estimate of habitat complexity, with the assumption that a greater volume indicates greater habitat complexity.

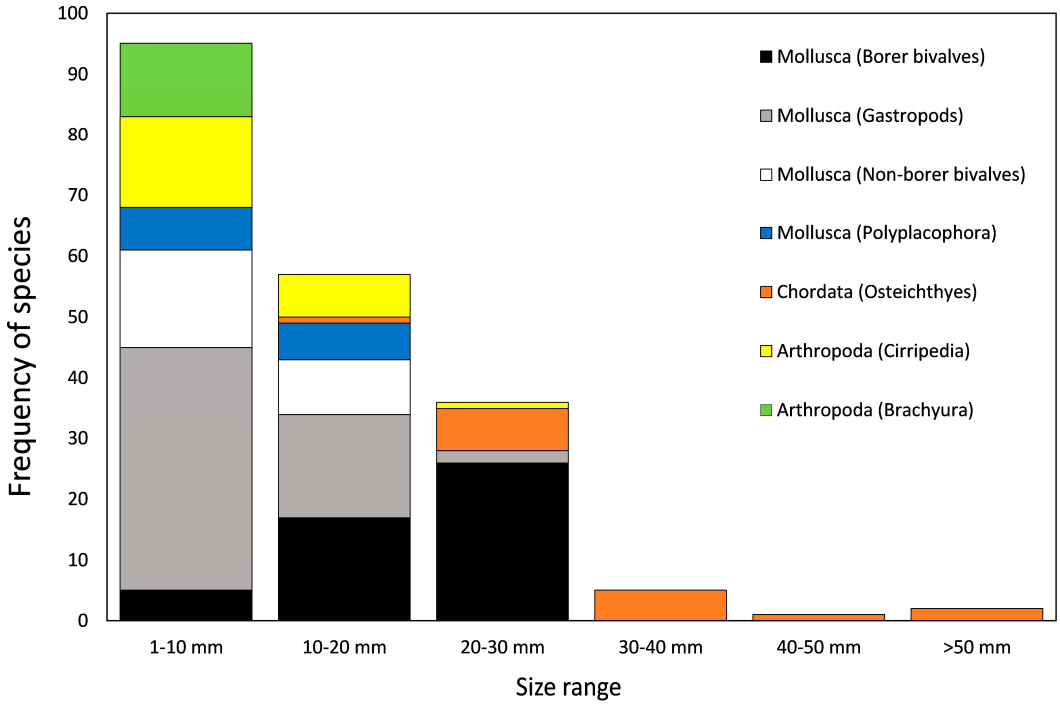


Figure S3. The frequency distribution categorized by body sizes between the boring bivalves and other crevice occupants in the artificial breakwater oysterbeds

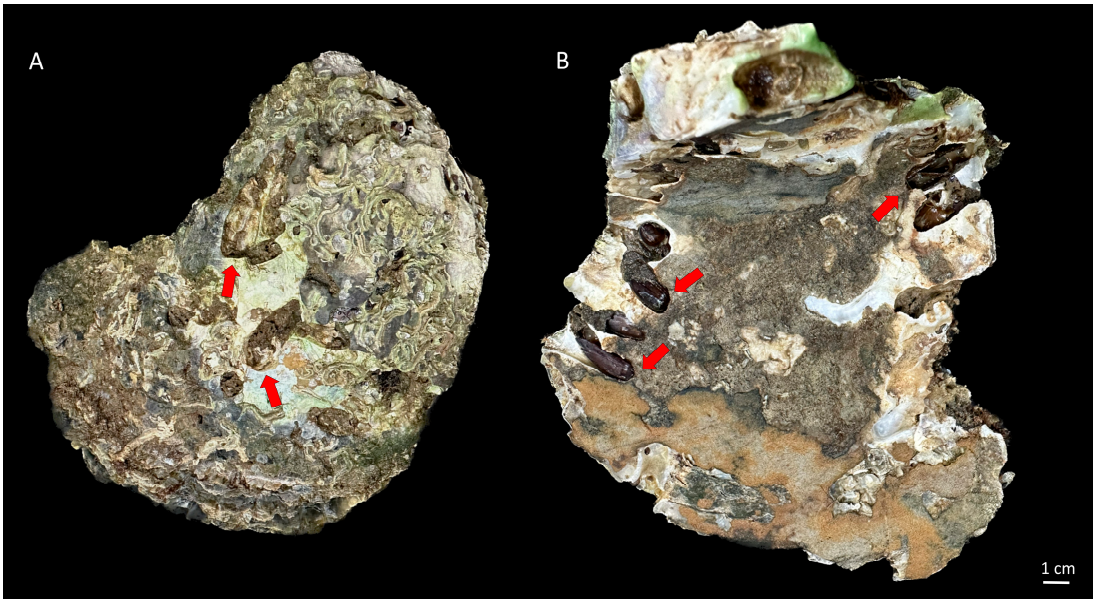


Figure S4. *Saccostrea spathulata* from inner Brunei Bay near the embayment infested with *Botula* cf *cinnamomea* (red arrows).

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