CHAPTER IV

PALEOENVIRONMENT INTERPRETATION OF STUDY AREA

Dominant molluscan at Wat Ban Khao Daeng area are composed of *Turritella terebra*: 27, *Anadara* (*Potiarca*) *pilula*: 45, *Vepricardium coronatum*: 27 and *Meretrix meretrix*: 26. They indicate the subtidal environment. It can be expected that their convection is from subtidal to recent coastline. (Figure 4.1, 4.5)

Dominant molluscan at Khao Rap area are composed of *Cerithidea* (*Cerithideopsilla*) *cingulata*: 356, *Natica tigrina*: 28, *Anomalocardia squamosa*: 33, *Placamen chloroticum*: 29 and *Marcia hiantina*: 20. They indicate the intertidal (mangrove) environment. (Figure 4.2, 4.6)

Dominant molluscan at Wat Thung Noi School area consist of *Natica tigrina*: 28, *Nassarius pullus*: 21, *Scalptia scalariformis*: 19, *Anadara oblonga*: 28, *Placamen chloroticum*: 29 and *Marcia hiantina*: 30. They indicate the intertidal (mangrove) environment. (Figure 4.3, 4.7)

Dominant molluscan at Ban Don Makham area contain *Natica tigrina*: 9, *Placuna placenta*: 40 and *Placamen chloroticum*: 27. They indicate the intertidal (mangrove) environment. (Figure 4.4, 4.8)

At Ban Nong Tao Pun Lang area, molluscan 4 species were found *Natica tigrina*: 2, *Anadara* (*Scapharca*) *inaequivalvis*: 1, *Placuna placenta*: 7 and *Dosinia trailli*: 1. They indicate the intertidal (mangrove) environment.

Based on the above-mentioned dominant and distribution molluscan Table 4.1 and 4.2, they indicate that their living environment was in the intertidal (mangrove) environment. (Robba *et al.*, 2002 and 2003)

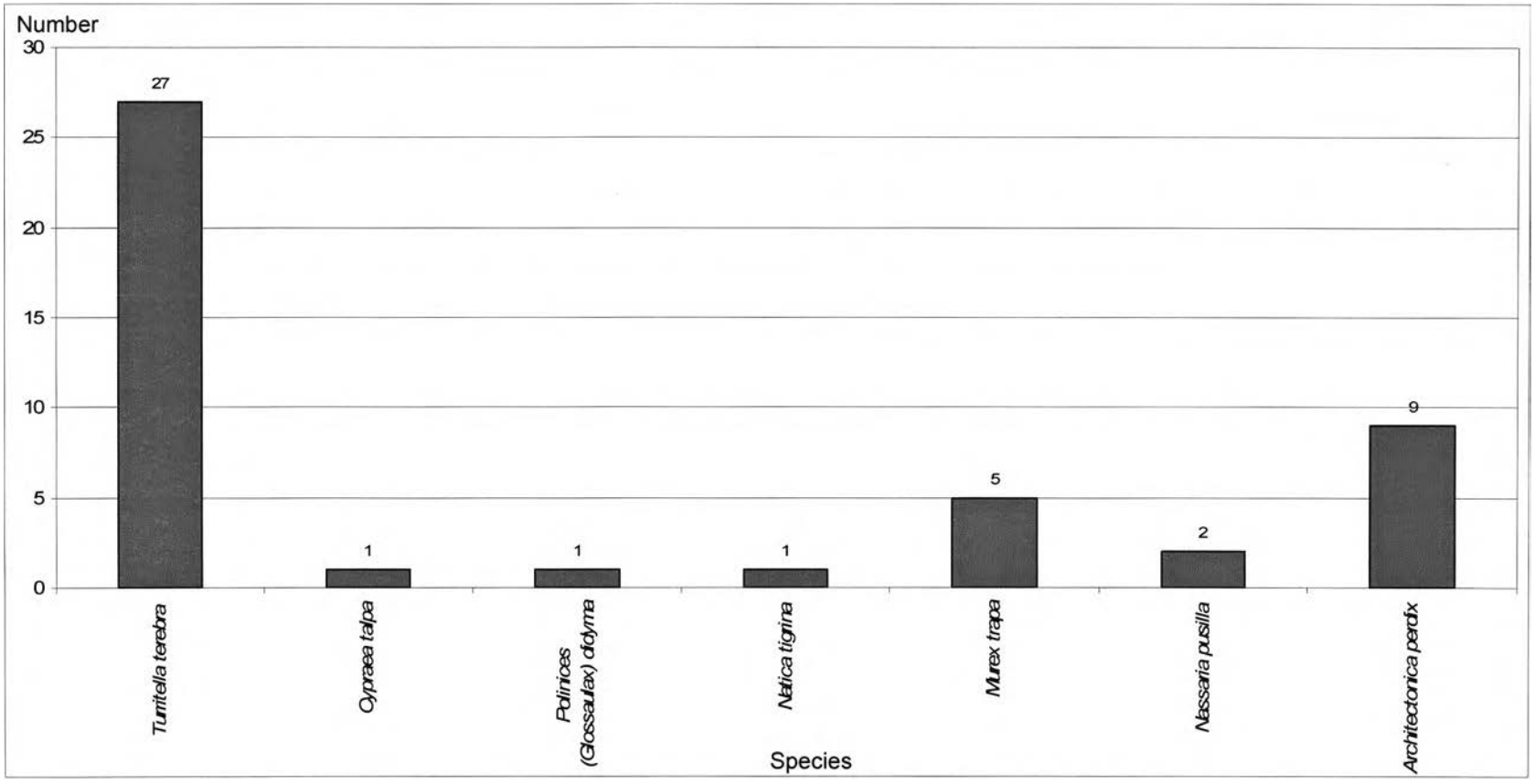

Figure 4.1 Distribution of Gastropoda at Wat Ban Khao Daeng.

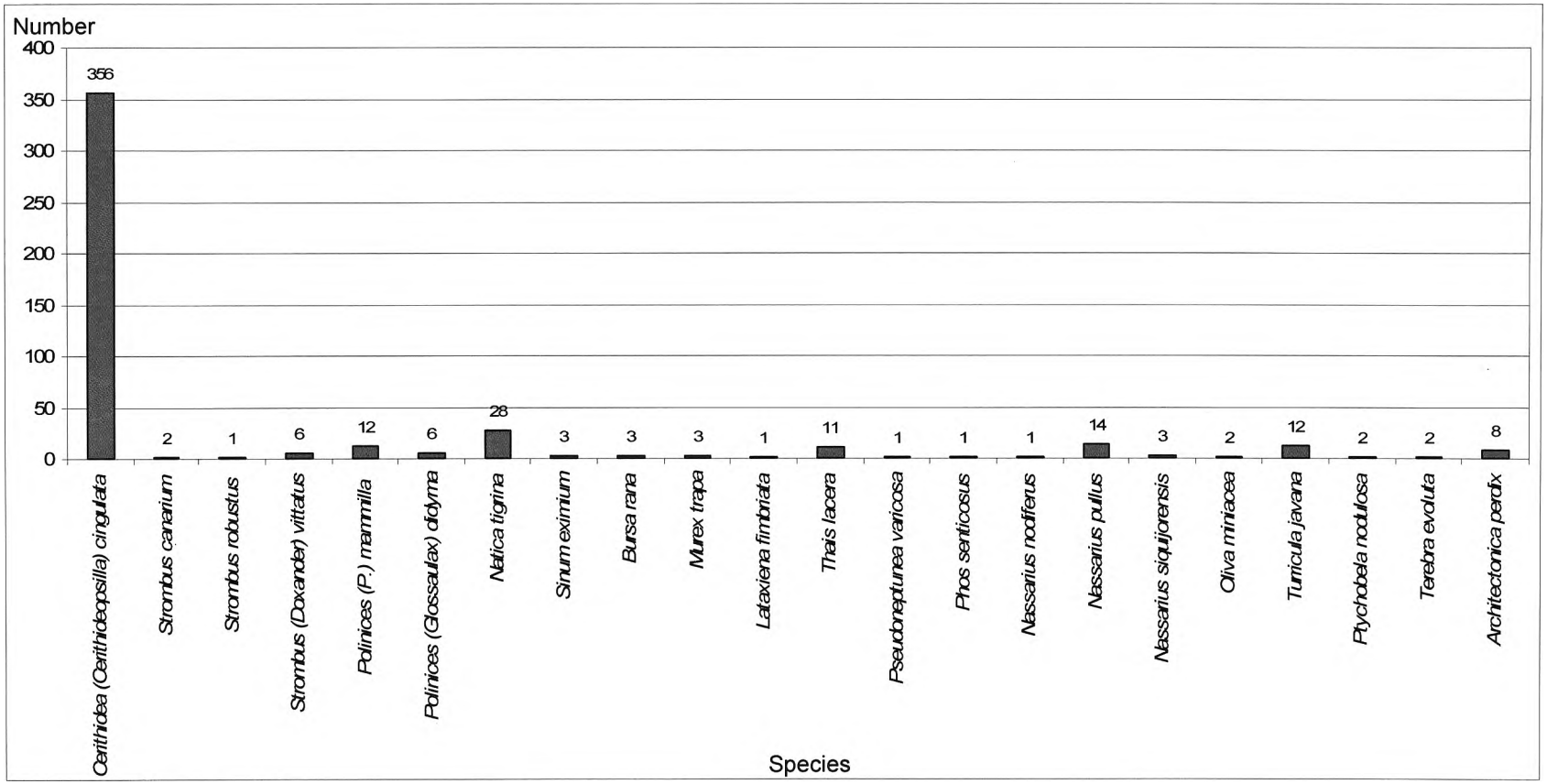

Figure 4.2 Distribution of Gastropoda at Khao Rap.

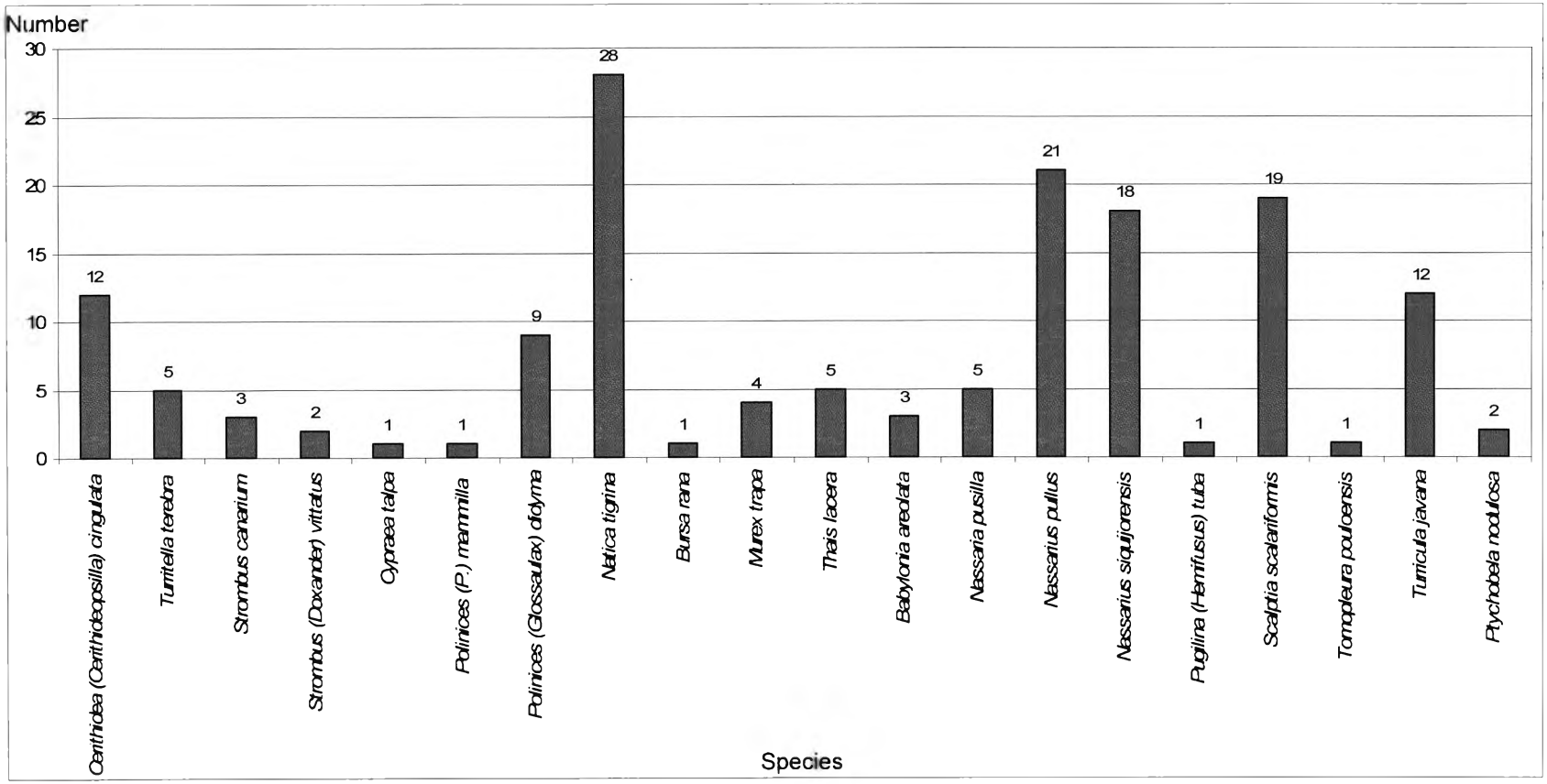

Figure 4.3 Distribution of Gastropoda at Wat Thung Noi School.

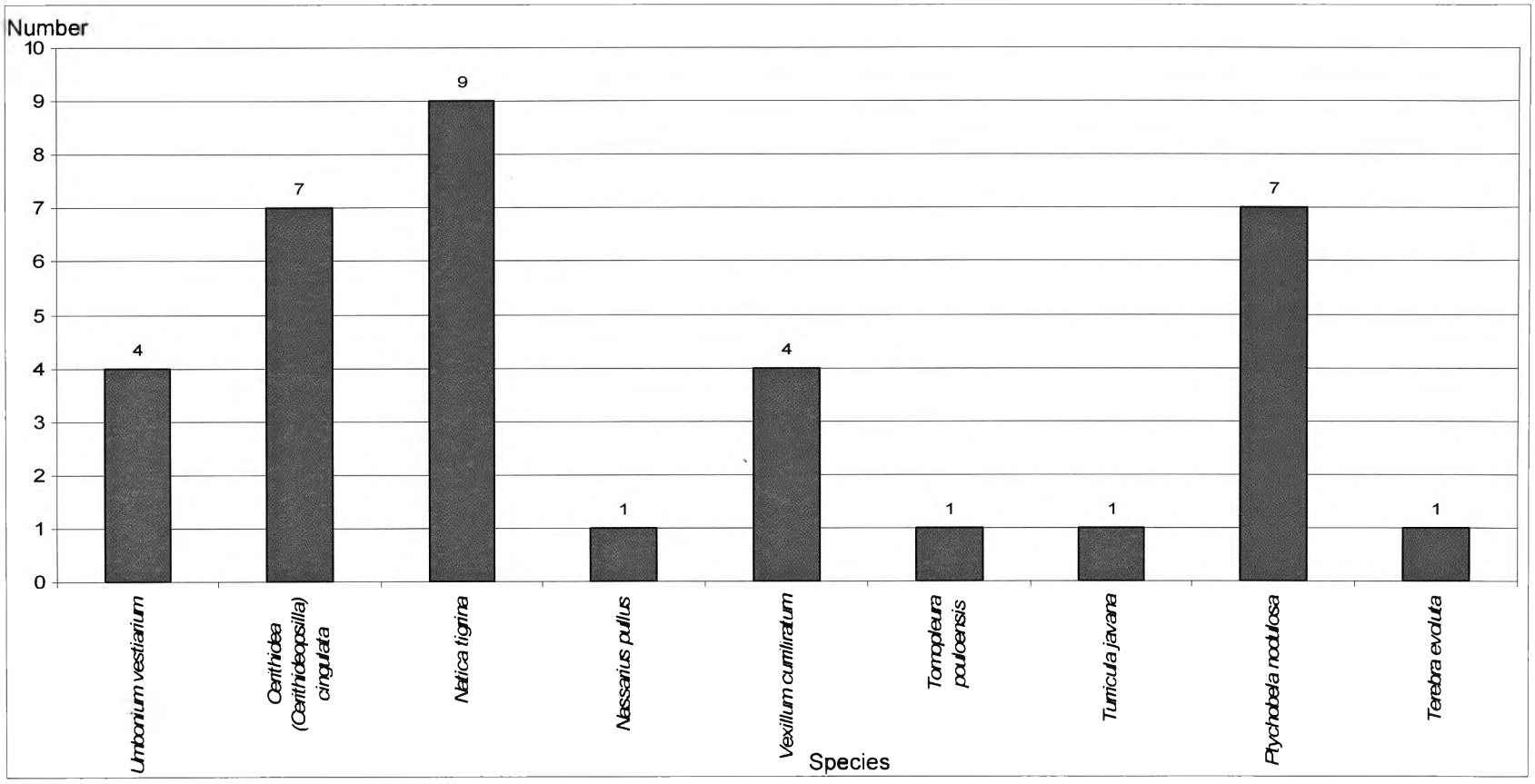

Figure 4.4 Distribution of Gastropoda at Ban Don Makham

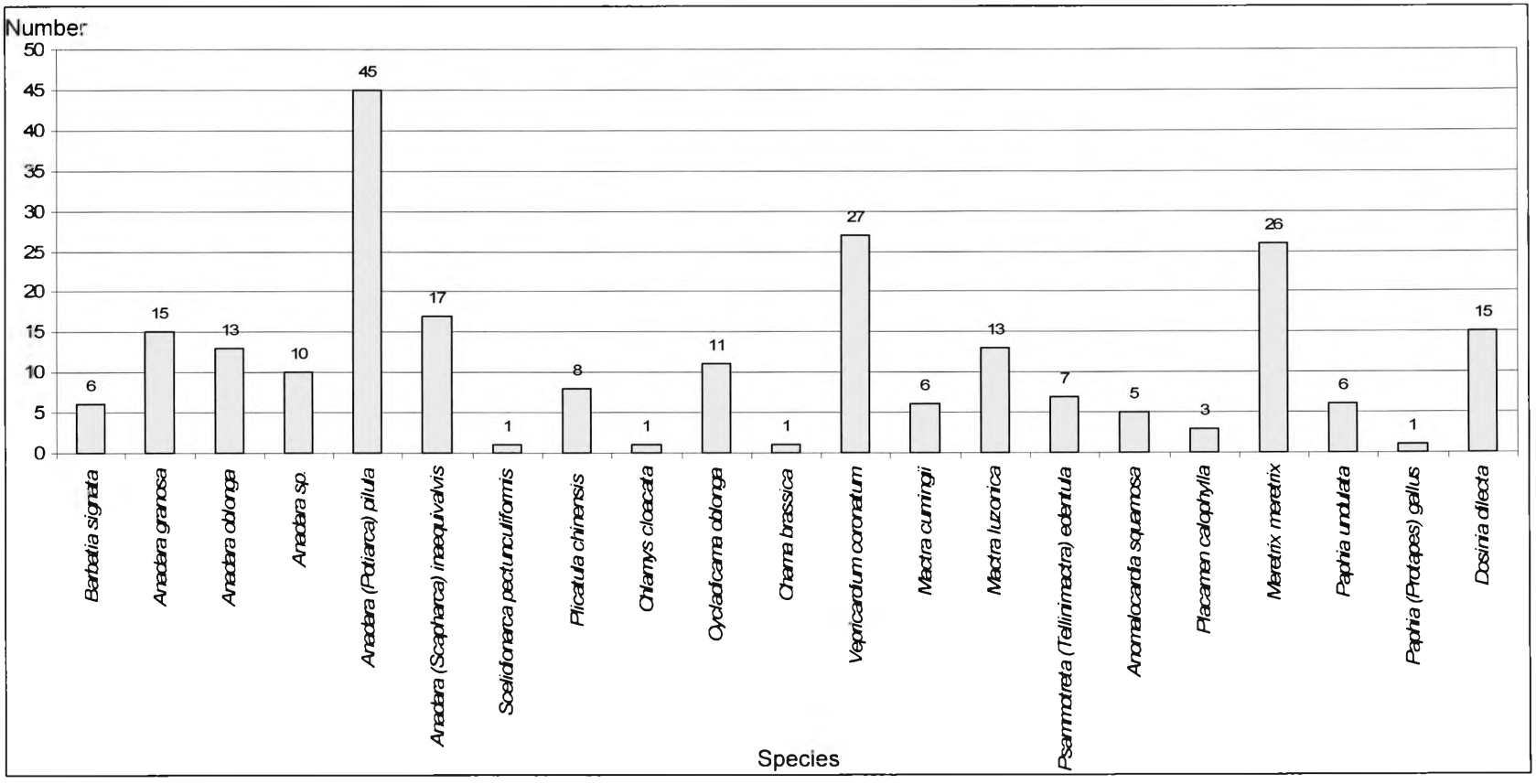

Figure 4.5 Distribution of Bivalvia at Wat Ban Khao Daeng.

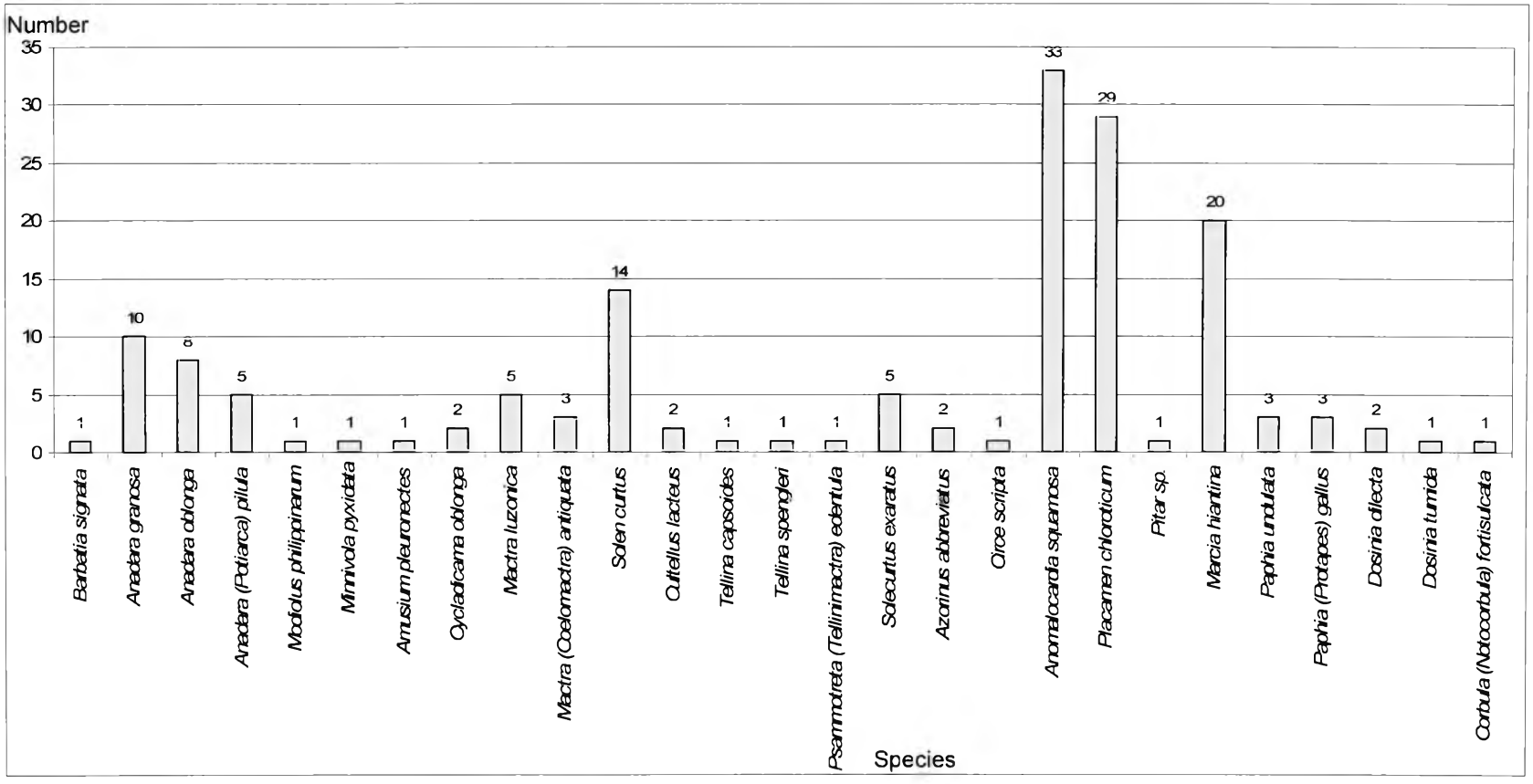

Figure 4.6 Distribution of Bivalvia at Khao Rap.

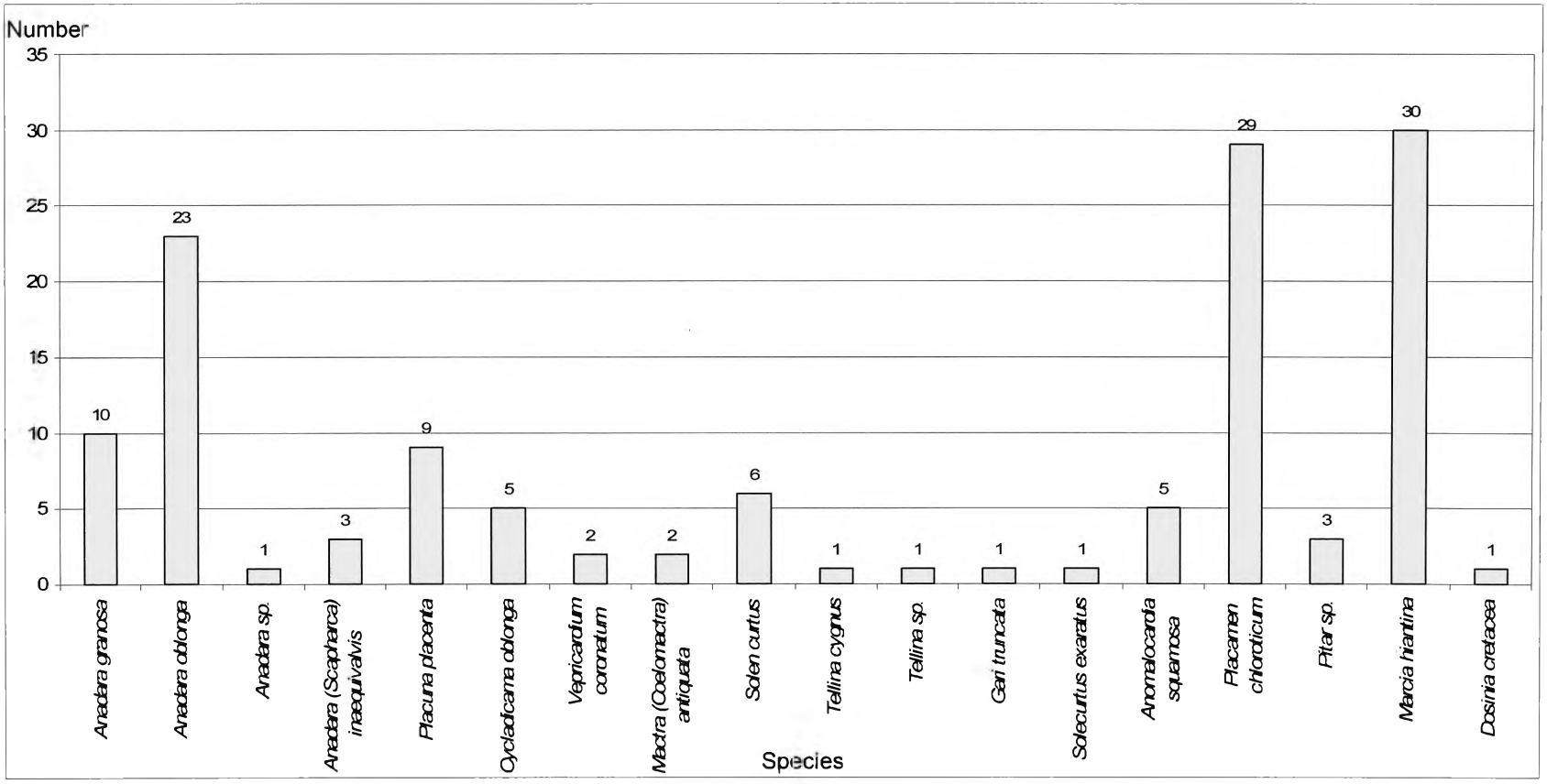

Figure 4.7 Distribution of Bivalvia at Wat Thung Noi School.

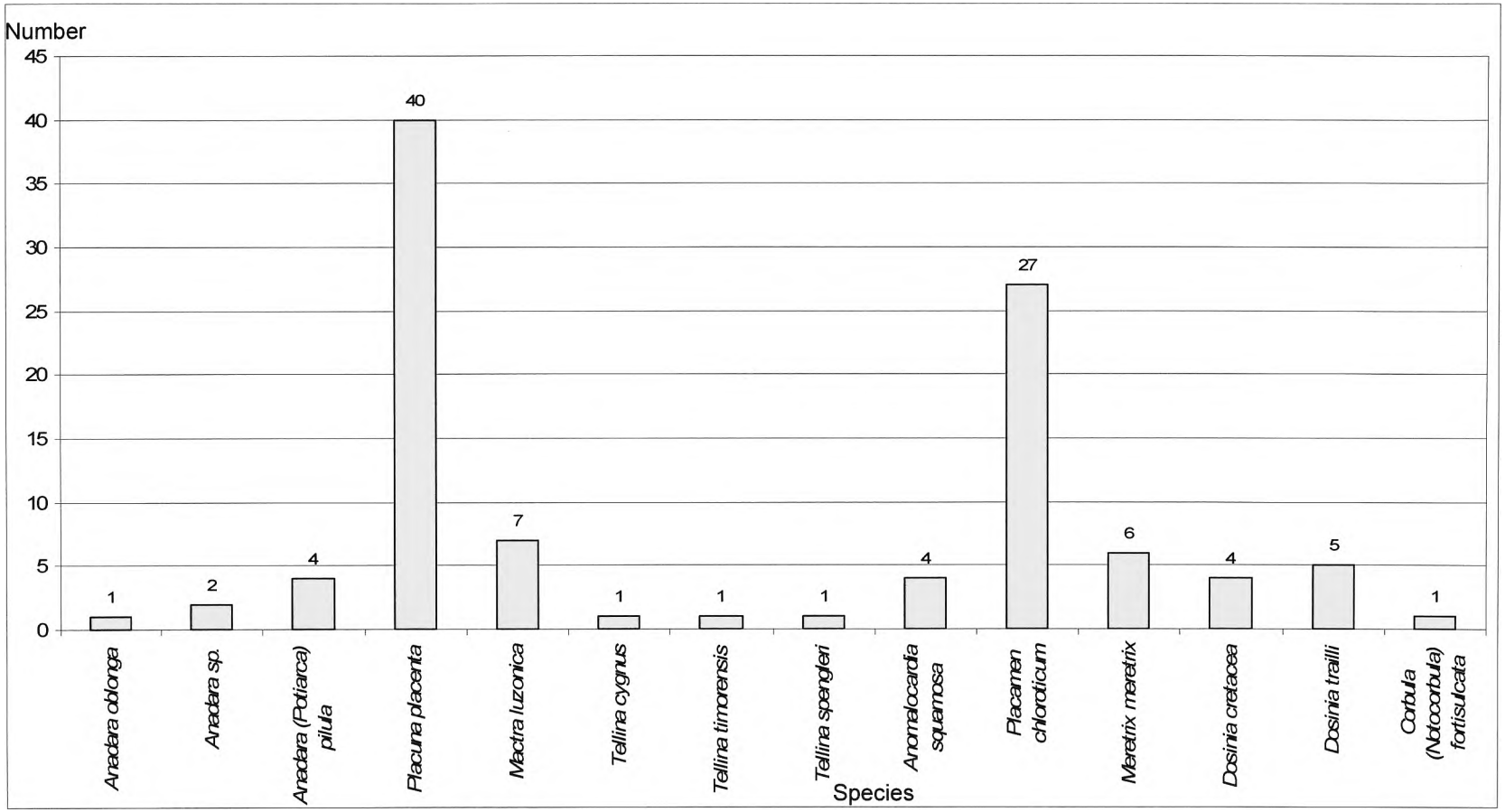

Figure 4.8 Distribution of Bivalvia at Ban Don Makham.

Table 4.1 The distribution of Gastropoda.

Species	Area				
	Wat Ban Khao Daeng	Khao Rap	Wat Thung Noi School	Ban Don Makham	Ban Nong Tao Pun Lang
Umbonium vestiarium				✓	
Cerithidea (Cerithideopsilla) cingulata		✓	✓	✓	
Turritella terebra	✓		✓		
Strombus canarium		✓	✓		
Strombus robustus		✓			
Strombus (Doxander) vittatus		✓	✓		
Cypraea talpa	✓		✓		
Polinices (Polinices) mammilla		✓	✓		
Polinices (Glossaulax) didyma	✓	✓	✓		
Natica tigrina	✓	✓	✓	✓	✓
Sinum eximium		✓			
Bursa rana		✓	✓		
Murex trapa	✓	✓	✓		
Lataxiena fimbriata		✓			
Thais lacera		✓	✓		
Babylonia areolata			✓		
Pseudoneptunea varicosa		✓			

Table 4.1 The distribution of Gastropoda. (Cont.)

Species	Area				
	Wat Ban Khao Daeng	Khao Rap	Wat Thung Noi School	Ban Don Makham	Ban Nong Tao Pun Lang
Phos senticosus		✓			
Nassaria pusilla	✓		✓		
Nassarius nodiferus		✓			
Nassarius pullus		✓	✓	✓	
Nassarius siquijorensis		✓	✓		
Pugilina (Hemifusus) tuba			✓		
Oliva miniacea		✓			
Vexillum curviliratum				✓	
Scalptia scalariformis			✓		
Tomopleura pouloensis			✓	✓	
Turricula javana		✓	✓	✓	
Ptychobela nodulosa		✓	✓	✓	
Terebra evoluta		✓		✓	
Architectonica perdix	✓	✓	✓		

Table 4.2 The distribution of Bivalvia.

Species	Area				
	Wat Ban Khao Daeng	Khao Rap	Wat Thung Noi School	Ban Don Makham	Ban Nong Tao Pun Lang
Barbatia signata	✓	✓			
Anadara granosa	✓	✓	✓		
Anadara oblonga	✓	✓	✓	✓	
Anadara sp.	✓		✓	✓	
Anadara (*Potiarca*) *pilula*	✓	✓		✓	
Anadara (*Scapharca*) *inaequivalvis*	✓		✓		✓
Scelidionarca pectunculiformis	✓				
Modiolus philipinarum					
Plicatula chinensis	✓				
Chlamys cloacata	✓				
Minnivola pyxidata		✓			
Amusium pleuronectes		✓			
Placuna placenta			✓	✓	✓
Cycladicama oblonga	✓	✓	✓		
Chama brassica	✓				
Vepricardium coronatum	✓		✓		

Table 4.2 The distribution of Bivalvia. (Cont.)

Species	Area				
	Wat Ban Khao Daeng	Khao Rap	Wat Thung Noi School	Ban Don Makham	Ban Nong Tao Pun Lang
Mactra cumingii	✓				
Mactra luzonica	✓	✓		✓	
Mactra (Coelomactra) antiquata		✓	✓		
Solen curtus		✓	✓		
Cultellus lacteus		✓			
Tellina capsoides		✓			
Tellina cygnus			✓	✓	
Tellina timorensis				✓	
Tellina spengleri		✓		✓	
Tellina sp.			✓		
Psammotreta (Tellinimactra) edentula	✓	✓			
Gari truncata			✓		
Solecurtus exaratus		✓	✓		
Azorinus abbreviatus		✓			
Circe scripta		✓			
Anomalocardia squamosa	✓	✓	✓	✓	
Placamen calophylla	✓				

Table 4.2 The distribution of Bivalvia. (Cont.)

Species	Area				
	Wat Ban Khao Daeng	Khao Rap	Wat Thung Noi School	Ban Don Makham	Ban Nong Tao Pun Lang
Placamen chloroticum		✓	✓	✓	
Meretrix meretrix	✓			✓	
Pitar sp.		✓	✓		
Marcia hiantina		✓	✓		
Paphia undulata	✓	✓			
Paphia (*Protapes*) *gallus*	✓	✓			
Dosinia cretacea			✓	✓	
Dosinia dilecta	✓	✓			
Dosinia trailli				✓	✓
Dosinia tumida		✓			
Corbula (*Notocorbula*) *fortisulcata*		✓		✓	