

# COLLABORATIVE RESEARCH SURVEY ON MARINE FISHERIES RESOURCES AND ENVIRONMENT IN THE GULF OF THAILAND 2018

## A preliminary study of species diversity of amphipods and micromollusks from the Gulf of Thailand

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# Outline

1. Objectives
2. Expected outputs
3. Sampling materials
4. Result
5. Future plan



# Objective

- To establish a preliminary checklist of microcrustaceans and micromollusks in the Gulf of Thailand

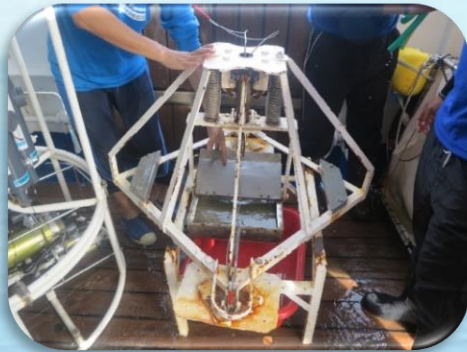
# Expected outputs

- Composition and abundance of macrofauna in the Gulf of Thailand
- Species list and description of microcrustaceans and micromollusks which provide taxonomic and biological data on these groups



# Sampling materials

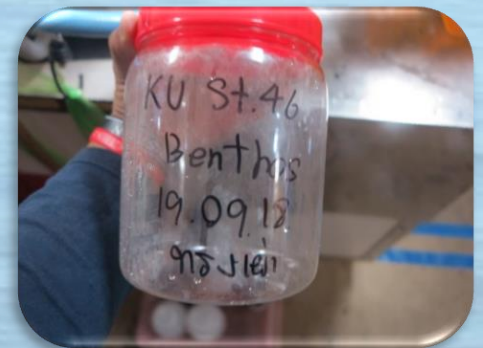
- Smith McIntyre Grab
- 300 micron-mesh sieve



Smith McIntyre Grab

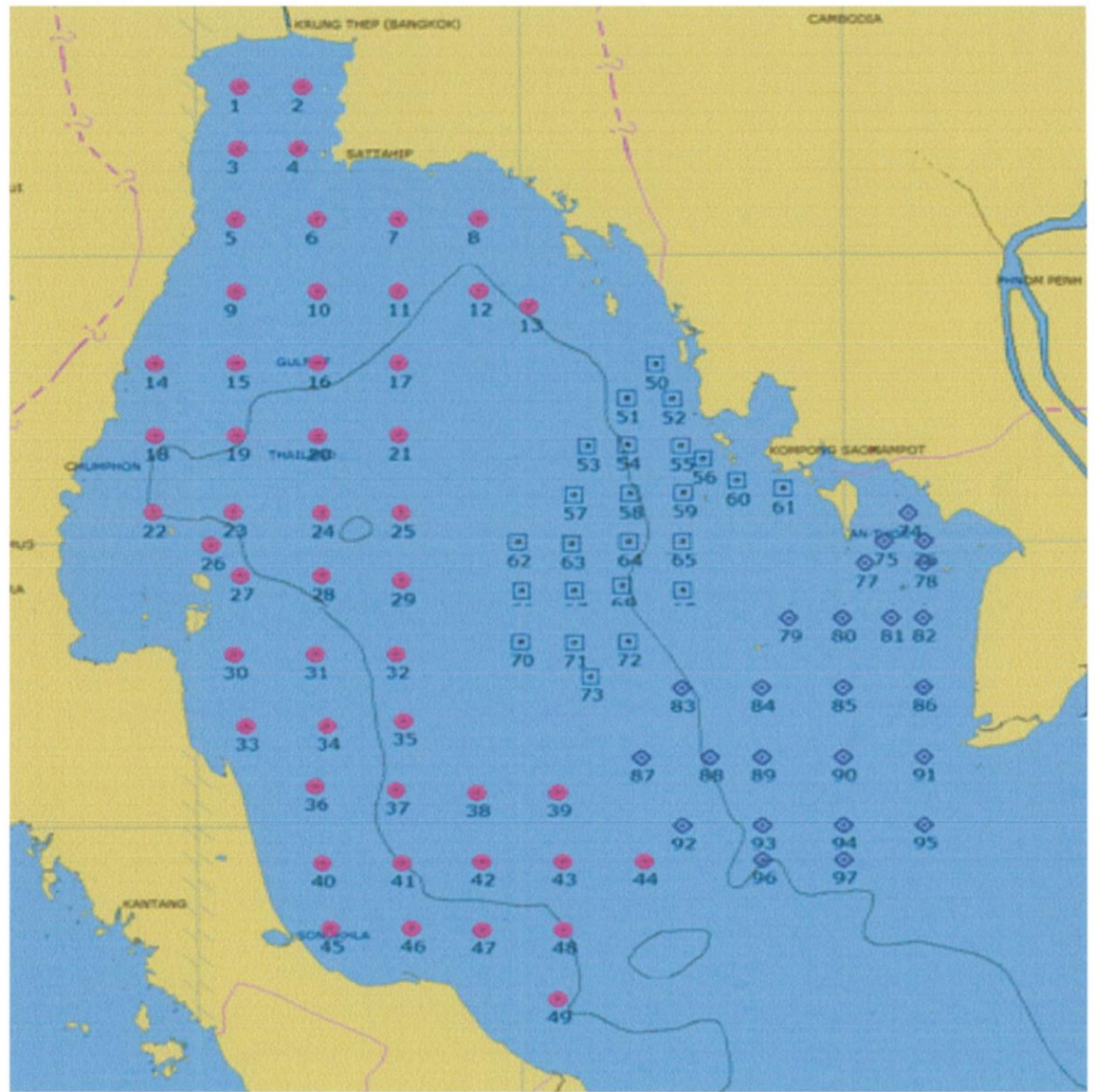


300 micron-mesh



# Subject

- - A total of 72 samples were collected





# Fauna found in this study: Phylum Annelida



Family Maldanidae



Family Eunicidae



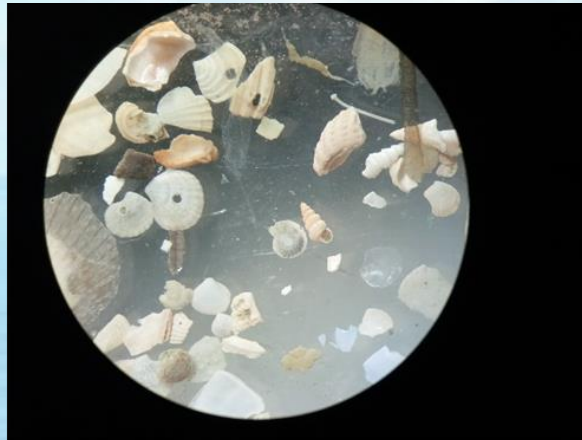
Family Pectinariidae

Family Sternaspidae

# Phylum Molluska



Pteropoda



Foraminifera



Gastropoda



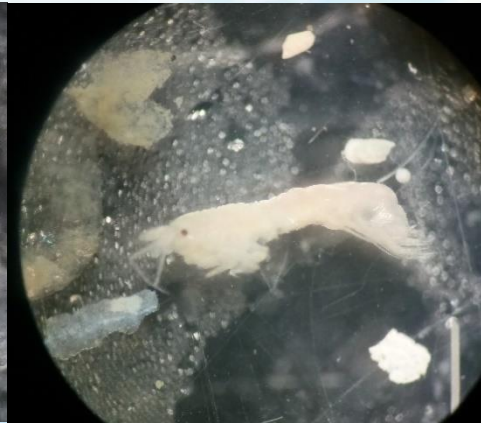
# Phylum Arthropoda, Subphylum Crustacea



Cumacea



Ostracoda



Decapoda

# Phylum Arthropoda, Subphylum Crustacea, Order Amphipoda





**Ampeliscidae**

*Ampelisca brevicornis*  
*Ampelisca cyclops*

**Amphilochidae**

*Hurstoniopsis japonica*

**Ampithoidae**

*Ampithoe ramondi*  
*Cymadusa* sp.

**Aoridae**

*Bemlos quadrimanus*  
*Grandidierella gilesi*

**Corophiidae**

*Cheiriphotis megacheles*  
*Cheiriphotis trifurcata*

**Eriopisidae**

*Victoriopisa chilensis*

**Hyalidae**

*Huale* sp.

**Ischyroceridae**

*Cerapus* sp.

**Kamakidae**

*Kamaka* cf. *songkhlaensis*

**Leucothoidae**

*Leucothoe furina*

**Liljeborgiidae**

*Idunella* sp.

**Lysianassidae**

*Waldeckia elephas*

**Maeridae**

*Ceradocus andamanensis*  
*Elasmopus* sp.  
*Maeropsis paphavasita*  
*Parelasmpus siamensis*

**Melitidae**

*Melita longipropada*  
*Melita* sp.

**Photidae**

*Latigammaropsis afra*  
*Latigammaropsis atlantica*  
*Photis longicaudata*

**Podoceridae**

*Podocerus andamaniensis*

**Urothoidae**

*Urothoe platydactyla*  
*Urothoe spinidigitata*

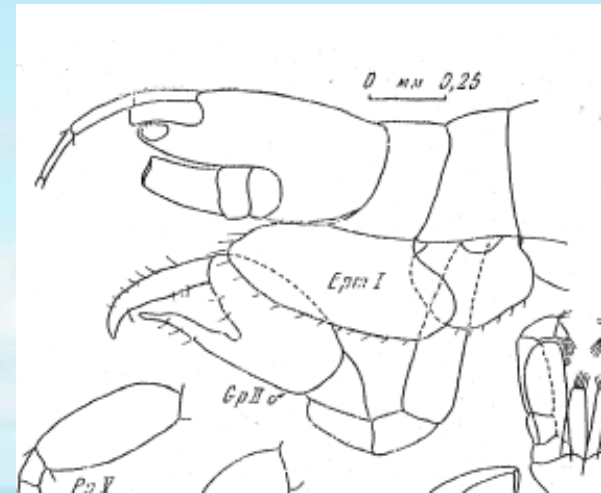
# 28 species from 17 families

- New record to the Gulf of Thailand
- *Melita longipropada*
- *Bemlos quadrimanus*
- *Ceradocus andamanensis*

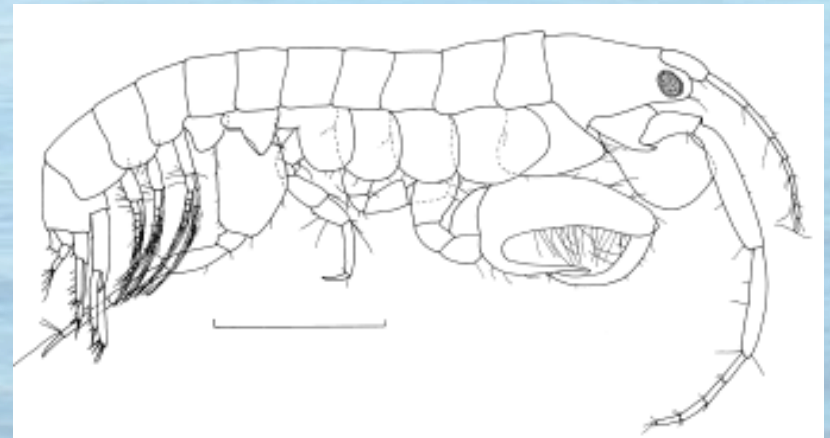
# Falimy Kamakidae



*Kamaka* sp.



*Kamaka palmata*



*Kamaka songkhlaensis*



**Acteonidae**  
*Punctacteon kuzmurai*  
**Atlantidae**  
*Atlanta sp.*  
**Cavoliniidae**  
*Diacavolina longrostris*  
*Diacavolina quadridentata*  
**Cerithiidae**  
*Argyropeza shepmaniana*  
*Cerithium cf. perpavulum*  
**Columbellidae**  
*Mitrella sp.1*  
*Zafra sp.1*  
**Cylichidae**  
*Adamnestia sp.1*  
*Adamnestia sp.2*  
*Adamnestia sp.3*  
*Adamnestia sp.4*  
*Adamnestia sp.5*  
*Truncatococina sp.1*  
**Cysticidae**  
*Criihe sp.1*  
**Dialidae**  
*Diala sp.1*  
**Epitoniidae**  
*Epitonium sp. 2*  
*Epitonium sp. 3*  
*Epitonium sp. 4*  
*Epitonium sp.1*  
*Epitonium sp.5*  
**Eulimidae**  
*Eulima puoides*  
*Melanella sp.1*  
*Melanella sp.2*  
**Haminoeidae**  
*Haminoea sp.2*  
*Limulatus sp.*  
**Iravadiidae**  
*Iravadia cf. reflecta*  
**Nassariidae**  
*Nassarius sp.1*  
*Nassarius sp.2*  
**Pyramidellidae**  
*Megastomia sp.1*  
*Megastomia sp.2*  
*Oscilla voorwaindei*  
**Pyramidellidae**  
*Cingulina cingulata*  
*Eulimella sp.1*  
*Turbonilla sp.1*  
*Turbonilla sp.2*  
**Retusidae**  
*Retusa sp.*  
*Rhizonus sp.*  
**Ringiculidae**  
*Ringiculina sp.1*  
*Ringiculina sp.2*  
*Ringiculina sp.3*  
**Rissoidae**  
*Rissoina sp.1*  
*Rissoina sp.2*  
**Scilolidae**  
*Finella pupoides*  
*Scalioia arenosa*  
**Triphoridae**  
*Viriola cf. tricineta*  
**Trochidae**  
*Ethminolia nektionica*  
**Turridae**  
*Etrema sp.1*  
*Eucithara sp.1*  
*Paraclathurella sp.1*  
*Pseudoraphitoma sp.1*  
*Turrid species*  
**Vermitidae**  
*Serpulorbis sp.*  
**Vitrinellidae**  
*Circulus modesta*  
*Circulus tornatus*  
*Pseudoliotia pulchella*

# Micromollusk diversity

Acteonidae	1
Atlantidae	1
Cavoliniidae	2
Cerithiidae	2
Columbellidae	2
Cylichidae	8
Cysticidae	1
Dialidae	1
Epitoniidae	5
Eulimidae	3
Haminoeidae	2
Iravadiidae	1
Nassariidae	2
Pyramidellidae	3
Pyramidellidae	4
Retusidae	2
Ringiculidae	3
Rissoidae	2
Scilolidae	2
Triphoridae	1
Trochidae	1
Turridae	5
Vermitidae	1
Vitrinellidae	3



58 species from 24 families of micromollusk were reported

	Family	Genus	
	Cavolinidae	Diacauling	
2	Epitoniidae	Epitonium sp.	Diac.
7	Turridae	Ethimolia	Epitonium
6	Turridae	Turridae	Ethimolia sp.
5	Turridae	Zucithara	Turrid species
6	Turridae	Turridae	Zucithara sp.
2	Vitrinellidae	Circularis	Turridae ed. vol.
5	Turridae	Vitrinella	Circularis turridae
5	Epitoniidae	Epitonium	Vitrinella sp. cf. tur.
10	Cylichidae	Adammusia	Epitonium sp.
13	Cylichidae	Adammusia	Adammusia sp. 1
10	Cylichidae	Adammusia	Adammusia sp. 2
15	Cylichidae	Adammusia	Adammusia sp. 3
16	Cylichidae	Adammusia	Adammusia sp. 4
12	Cylichidae	Adammusia	Adammusia sp. 5
14	Cylichidae	Adammusia	Adammusia sp. 6
14	Cylichidae	Adammusia	Adammusia sp. 7
10	Cylichidae	Adammusia	Adammusia sp. 8
11	Haminoeidae	Limulopsis	Limulopsis sp.
22	Cylichidae	Turcactocina	Turcactocina sp.
23	Cylichidae	Turcactocina	Turcactocina sp.
24	Cylichidae	Turcactocina	Turcactocina sp.
25	Gulimidae	Gulina	Gulina sp.
26			
27			
28			
29			

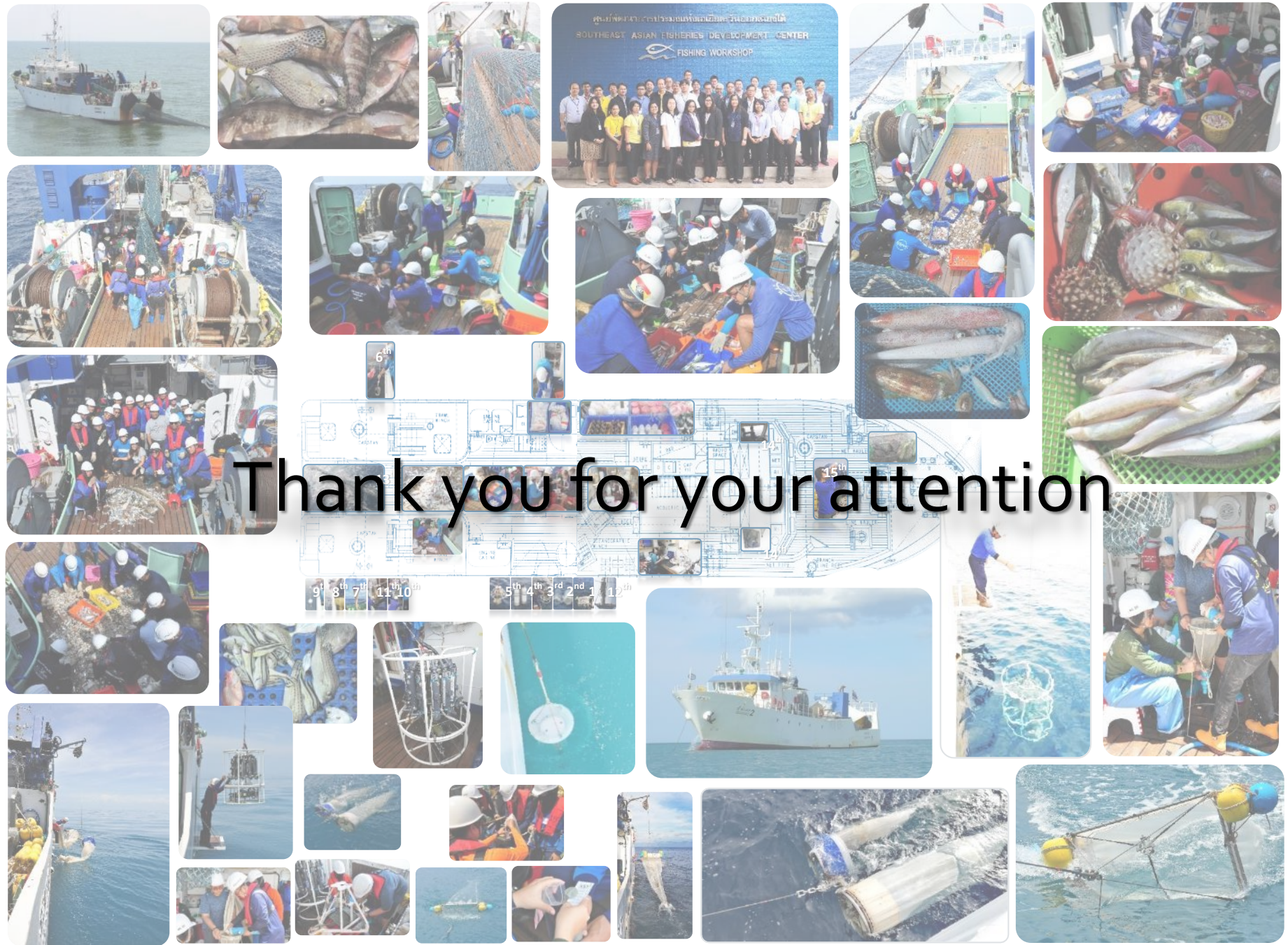
- 58 species from 24 families of micromollusc were reported
- Family Cylichidae was the most diverse with 8 species and family Epitoniidae and Turridae contained 5 species





# Future plan

- Taxonomy : microcrustaceans and micromollusks
- Updated checklist
- Description on new species and new records in the Gulf of Thailand
- Preparing manuscript on taxonomy and diversity



Collaborative Research Survey on Marine Fisheries Resources and Environment in the Gulf of Thailand 2018