

PRELIMINARY ICTHYOLOGICAL SURVEY AT LAMPI AND SOME ADJACENT ISLANDS

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Introduction

An ichthyological survey was conducted at Kyuun Pyar Gyi Island (Pine Tree Island), Nyaung Wee Island, Kyun Tan She Island (Lampi Island), Bo Cho Island, Ko Phawt Island and War Kyuun Island from 12th. to 24th. January 2008. The islands are situated on Myeik Archipelago in southern Myanmar (Fig. 1).

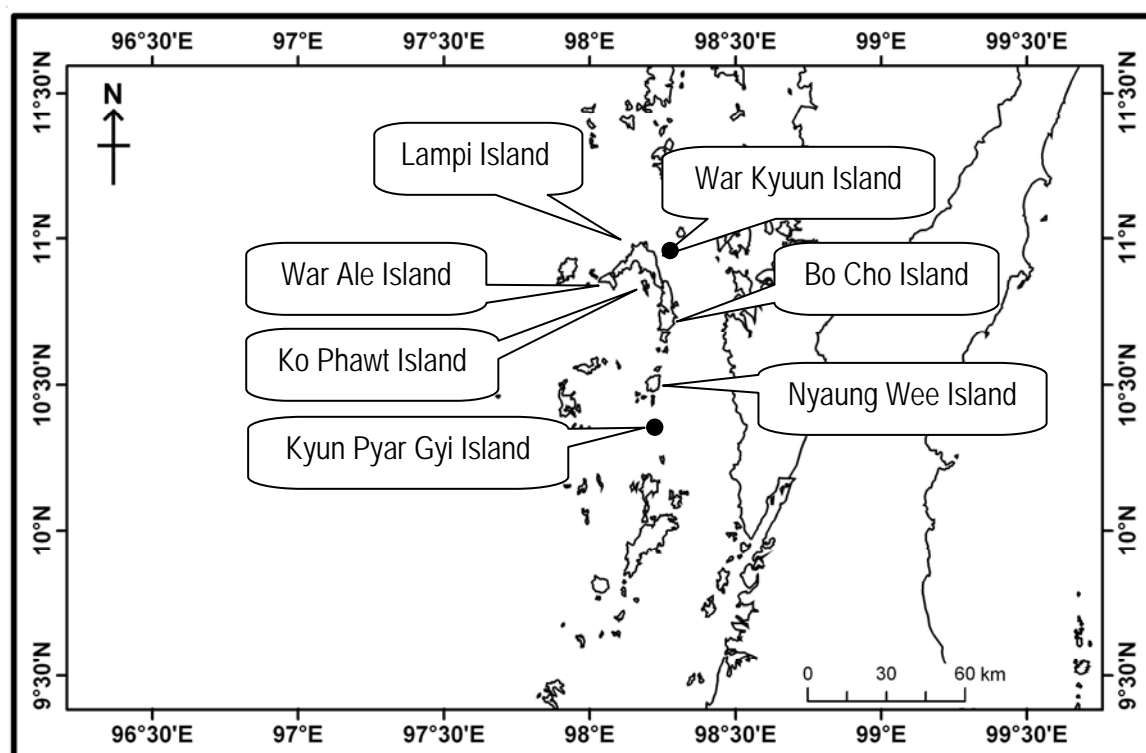


Figure 1. Map showing the Lampi and its adjacent Islands on Myeik Archipelago in southern Myanmar.

Materials and Methods

Fish samples were collected from Kyuun Pyar Gyi Island (Pine Tree Island), Nyaung Wee Island, Kyun Tan She Island (Lampi Island), Bo Cho Island, Ko Phawt Island and War Kyuun Island (Table 1). They were collected by gill net (aperture 2.54cm, length 30m, width 1.5m), beach seine (aperture 3.81cm, length 100m, width 2.5m), dip net and mosquito net (aperture 0.5cm). Some fish samples were also obtained from fishing boats and fishermen. Some commercial fish and shrimp samples were also observed at Annawar Soe Co. Ltd. at War Kyuun Island. The samples were photographed on “Sea Nomad” catamaran and

then they were preserved in 10% formaldehyde seawater solution. Identification was made during the trip and, subsequently, at the Department of Marine Science, Mawlamyine University.

Table 1. Fish sample collection sites during the Lampi ichthyological survey.

Station	Island	Latitude (N)	Longitude (E)	Date	Time	Location	Collection
A	Pine Tree Is. (Kyun Pyar Gyi Is.)	10°20.836'	98°16.763'	13 Jan 2008	12:30	Mouth of Tadal creek	Fishing boat
B	Nyaung Wee Is.	10°33.157'	98°14.488'	14 Jan 2008	13:15	Beach	Gill net
C	Lampi Is. (South-West)	10°42.356'	98°15.142'	15 Jan 2008	10:05	Creek	Gill net
D	Lampi Is. (West)	10°50.125'	98°16.374'	16 Jan 2008	9:30	Sandy beach	Beach seine
E	Bocho Is.	10°41.000'	98°12.140'	17 Jan 2008	11:00	Sandy beach, (Ma Kyone Galet)	Gill net, Dip net
F	Ko Phawt Is.	10°51.721'	98°11.639'	18 Jan 2008	1:30 16:00	Sandy beach	Gill net, Dip net
G	Lampi Is. (West)	10°54.585'	98°12.015'	19 Jan 2008	10:40	Crocodile river Tidal creek	Gill net Dip net
H	Lampi Is. (North-West)	10°52.644'	98°05.053'	20 Jan 2008	15:00	Big bay creek	Gill net, Dip net
I	War Kyuun Is.	10°54.772'	98°14.919'	21 Jan 2008	17:00	Fish processing factory	Factory

Results

A total of 42 fish species belongs to 22 Families were recorded from Lampi and its adjacent islands (Table 2 & 3). Family Oryziatidae and seven fish species are new records for Myanmar. They are –

1. *Albula neoguinaica*
2. *Ambassis interruptus*
3. *Ambassis vachelli*
4. *Atherinomorus endrachteusis*
5. *Atherinomorus ogilbyi*
6. *Oryzias sp.*
7. *Rhoniscus sp.*



Figure 2. *Albula neoguinaica*.

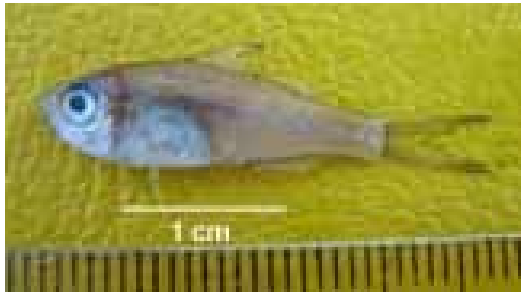


Figure 3. *Ambassis interruptus*.

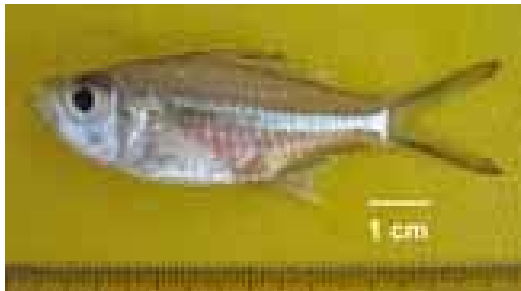


Figure 4. *Ambassis vachelli*.



Figure 5. *Atherinomorus ogilbyi*.



Figure 6. *Atherinomorus ogilbyi*.

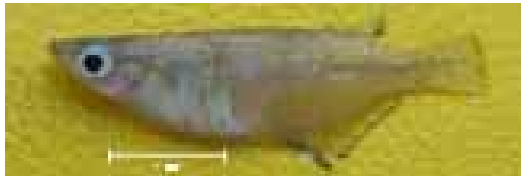


Figure 7. *Oryzias* sp.



Figure 8. *Rhoniscus* sp.

Matured eggs were observed in *Oryzias* sp. collected from Kophaut Island.

Fish samples collected from Annawar Soe Co. Ltd. at War Kyuun Island were

1. *Pseudorhombus* sp.
2. *Cynoglossus* sp.
3. *Psettodus eurami*
4. *Chrysochir aureus*
5. *Otolithes rubber*
6. *Othlithoides* sp.
7. *Saurida* sp.
8. *Nemipterus japonicus*
9. *Carangoides* sp.
10. *Upeneus* sp.

A shrimp species, *Penaeus merguensis* (Banana shrimp), was also observed at the company.

Table 2. List of fishes collected from the Ichthyological survey.

Family	Genus and Species	Myanmar Name	Remarks
1. Albulidae	1. <i>Albula neoguinaica</i>	Nga Pa Lwe	new record
2. Ambassidae	1. <i>Ambassis interruptus</i>	Ngagone (Kakadit)	new record
	2. <i>Ambassis vachelli</i>	Ngagone (Kakadit)	new record
3. Atherinidae	1. <i>Atherinomorus ogilbyi</i>	Nga Kyay Mar	new record
	2. <i>Atherinomorus endrachtensis</i>	Nga Kyay Mar	new record
4. Belonidae	1. <i>Platybelone platyura</i>	Nga Phaung Yoe	
	2. <i>Tylosurus gavioloides</i>	Nga Phaung Yoe	
5. Blennidae	1. Blenny	Nga di	
6. Carangidae	1. <i>Carangoides ferdau</i>	Zar Gyan	
	2. <i>Carangoides chrysophrys</i>	Wai Phyu	
	3. <i>Selar crumenophthalmus</i>	Zar Gyan	
7. Clupeidae	1. <i>Ilisha melastoma</i>	Nga Bya	
	2. <i>Opisthopterus tardoore</i>	Nga Bya	
	3. <i>Opisthopterus valenciennesi</i>	Nga Bya	
8. Epinephalidae	1. <i>Epinephelus areolatus</i>	Kyauk Nga	
	2. <i>Epinephelus sp1.</i>	Kyauk Nga	
	3. <i>Epinephelus sp2.</i>	Nga Tauk Tu	
9. Gerridae	1. <i>Pentaprion longimanus</i>	Nga Si Ore	
	2. <i>Gerres oyena</i>	Nga Si Ore	
	3. <i>Gerrus filamentosus</i>	Nga Si Ore	
	4. <i>Gerres abbreviatus</i>	Nga Si Ore	
10. Gobidae	1. <i>Periophthalmus koelreuteri</i>	Nga yet	
11. Hemirhamphidae	1. <i>Hyporhamphus offinis</i>	Nga Phaung Yoe	
	2. <i>Hemirhamphus far</i>	Nga Phaung Yoe	
	3. <i>Hemirhamphus sp.</i>	Nga Phaung Yoe	
12. Leiognathidae	1. <i>Leiognathus equulus</i>	Nga Dinga	
13. Megalopidae	1. <i>Megalops cyprinoids</i>	Myet San Kyal	
14. Mugillidae	1. <i>Liza vaiqiensis</i>	Ka Ba Lu	
	2. <i>Liza tade</i>	Ka Ba Lu	
15. Oryziatidae	1. <i>Oryzias sp.</i>	-	new record
16. Pomadasysidae	1. <i>Rhoniscus sp.</i>	Nga Gone	new record
	2. <i>Pomadasys olivaceun</i>	Nga Gone	
17. Siganidae	1. <i>Siganus canaliculatus</i>	Nga Yan Shar	
	2. <i>Siganus lineatus</i>	Nga Yan Shar	
18. Scombridae	1. <i>Rastrelliger karnagurta</i>	Platu	
	2. <i>Scomberoides tol</i>	Nga Mei Lone	
19. Sillaginidae	1. <i>Sillago sihama</i>	Nga Pa Lwe	
	2. <i>Sillago macrolepis</i>	Nga Pa Lwe	
20. Synodontidae	1. <i>Saurida micropectoralis</i>	Kala Lee	
21. Tetraodontidae	1. <i>Tetraodon sp.</i>	Nga Pudín	
22. Theraponidae	1. <i>Therapon jarbua</i>	Nga Gone Kyar	

Table 3. Fish species observed at the collection sites.

Sr.	Species	A	B	C	D	E	F	G	H	I	Remarks
1.	<i>Albula neoguinaica</i>				■						new record
2.	<i>Alepes djeddaba</i>					■					
3.	<i>Ambassis interruptus</i>								■		new record
4.	<i>Ambassis vachelli</i>								■		new record
5.	<i>Atherinomorus endrachtensis</i>				■			■	■		new record
6.	<i>Atherinomorus ogilbyi</i>								■		new record
7.	<i>Blenny</i>	■							■		
8.	<i>Carangoides chrysophrys</i>					■					
9.	<i>Carangoides ferdau</i>				■						
10.	<i>Epinephelus areolatus</i>						■				
11.	<i>Epinephelus sp.</i>						■				
12.	<i>Gerres abbreviatus</i>					■					
13.	<i>Gerres oyena</i>		■		■						
14.	<i>Gerres filamentosus</i>		■		■						
15.	Half beak larvae (<i>Hemirhamphus sp.</i>)								■		
16.	<i>Hemirhamphus far</i>					■					
17.	<i>Hyporhamphus offinis</i>				■						
18.	<i>Ilisha melastoma</i>					■					
19.	<i>Leiognathus equulus</i>					■					
20.	<i>Liza tade</i>		■		■						
21.	<i>Liza vaiqiensis</i>				■						
22.	<i>Megalaspis cordyla</i>					■					
23.	<i>Megalops cyprinoids</i>							■			
24.	<i>Opisthopterus tardoore</i>					■					
25.	<i>Opisthopterus valenciennesi</i>					■					
26.	<i>Oryzias sp.</i>							■			new record
27.	<i>Pentaprion longimanus</i>				■						
28.	<i>Periophthalmus koelreuteri</i>	■	■	■	■				■		
29.	<i>Platybelone platyura</i>				■						
30.	<i>Pomadasys olivaceun</i>					■					
31.	<i>Rastrelliger karnagurta</i>					■					
32.	<i>Rhoniscus sp.</i>				■						new record
33.	<i>Saurida micropectoralis</i>	■				■					
34.	<i>Scomberoides tol</i>				■						
35.	<i>Selar crumenophthalmus</i>					■					
36.	<i>Selaroides leptolepis</i>					■					
37.	<i>Siganus canaliculatus</i>							■			
38.	<i>Siganus lineatus</i>					■					
39.	<i>Sillago sihama</i>				■						
40.	<i>Tetraodon sp.</i>							■			
41.	<i>Therapon jarbua</i>		■		■						
42.	<i>Tylosurus gaviatoides</i>				■						
	<i>Fish larva</i>							■			

A = Kyun Pyar Gyi Is.

D = Lampi Is. (West)

G = Lampi Is. (Crocodile river)

B = Nyaung Wee Is.

E = Bocho Is. (Ma Kyone Galet)

H = Lampi Is. (North-West, Big bay)

C = Lampi Is. (South-West)

F = Ko Phawt Is.

I = War Kyuun Is.

Discussion

During the preliminary survey to the some islands in southern Myanmar, one new Family and seven new fish species record to Myanmar could be identified. Some freshwater fishes and prawns were observed in a fresh water creek at the Salat Galet and they should also be studied.

Commercial fishery and increase settlement has been developing at Bo Cho and War Kyuun Islands. Therefore, sustainable development of the Lampi area is important for both economy and marine living resources.

Man power and duration are needs for further intensive ichthyological study.

Acknowledgement

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