

Sub-Group Report

Egg, Larvae and Juvenile of Fish

Composed by:



Floredel D. Dangan-Galon
Philippine



Edwison Setya F.
Indonesia



Bongo Net

Vessel = M.V. Seafdec 2

Date = 23 May 2007

Towing Depth (m)	Towing Speed (knots)	Start		Finish	
		Time	13.40	Time	13.48
20	3	Lat	12° 55' 4" N	Lat	12° 55' 1" N
		Long	100° 45' 3" E	Long	100° 45' 0" E
		Fish Larvae		Zooplankton	
Flowmeter Number		TSK 7035		TSK 7021	
Flowmeter Reading	Start	5.702		5.745	
	Finish	10.109		10.002	

Number of revolution = 4,407

Diameter of bongo net = 60 cm

Meshsize of bongo net = 330 µm

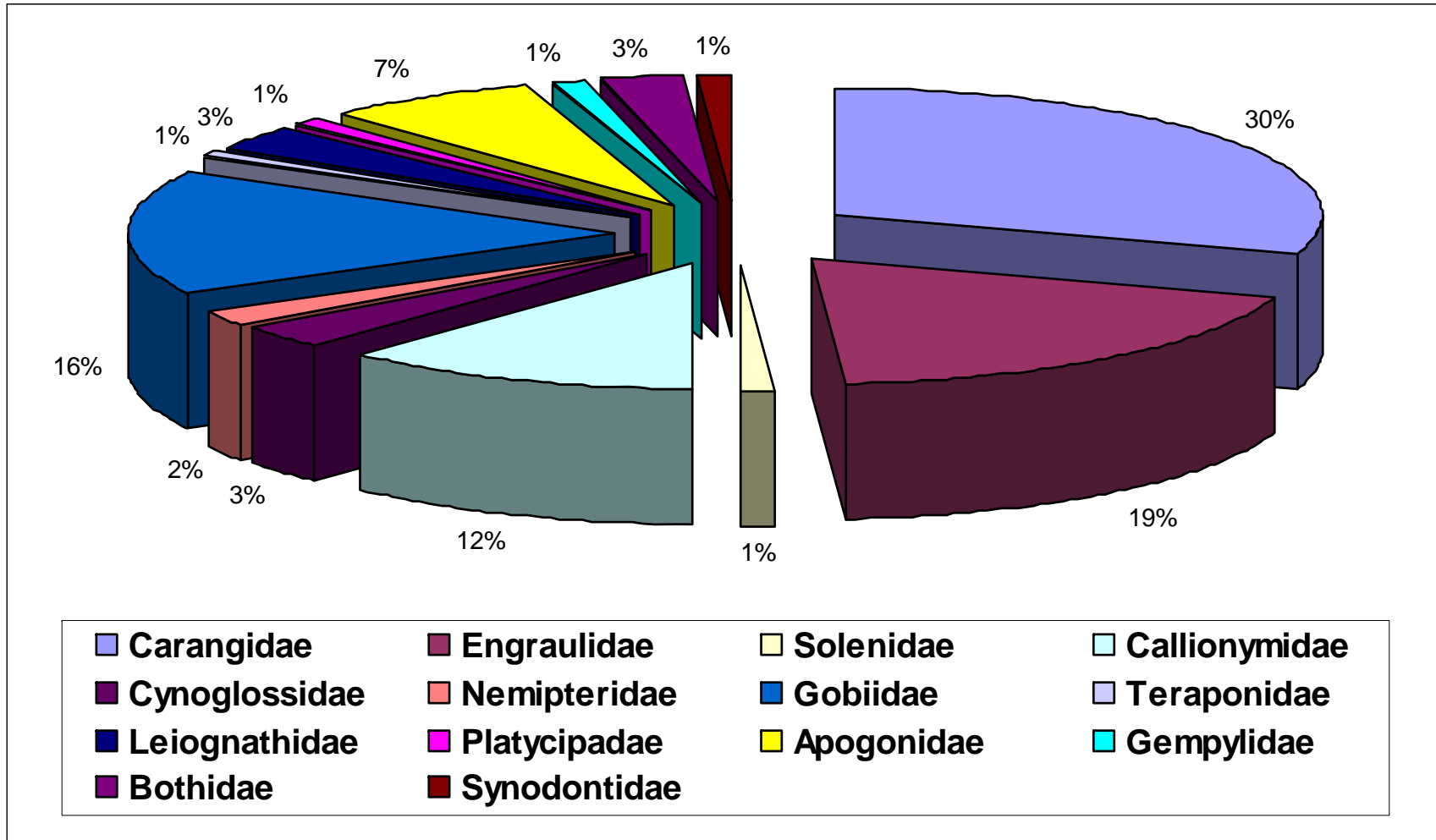
Cal factor = 0.136

Wire out = 39.6 m

Bongo Net

No.	Family	Number	Density (idv/m ²)
1	Carangidae	30	69.76
2	Engraulidae	19	44.18
3	Solenidae	1	2.33
4	Callionymidae	12	27.90
5	Cynoglossidae	3	6.98
6	Nemipteridae	2	4.65
7	Gobiidae	16	37.21
8	Unknown	1	2.33
9	Leiognathidae	3	6.98
10	Platycephalidae	1	2.33
11	Apogonidae	7	16.28
12	Gempylidae	1	2.33
13	Bothidae	3	6.98
14	Synodontidae	1	2.33
1	Egg-spherical	40	93.01
2	Egg-elliptical	136	316.24

Bongo Net



- | | | | |
|-------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|------------------------------------------------------|
| ■ Carangidae | ■ Engraulidae | ■ Solenidae | ■ Callionymidae |
| ■ Cynoglossidae | ■ Nemipteridae | ■ Gobiidae | ■ Teraponidae |
| ■ Leiongnathidae | ■ Platycipadae | ■ Apogonidae | ■ Gempylidae |
| ■ Bothidae | ■ Synodontidae | | |

Bongo Net

Mean of Body Depth and Standard Length of Fish Larvae

No.	Family	BD (mm)	SL (mm)
1	Carangidae	1.6	3.5
2	Engraulidae	0.52	4.95
3	Solenidae	1.2	3.7
4	Callionymidae	0.9	2.72
5	Cynoglossidae	0.8	2.1
6	Nemipteridae	1.5	4.75
7	Gobiidae	1.1	5.1
8	Unknown	1.4	4.8
9	Leiognathidae	1.2	3.2
10	Platycipadae	1	2.2
11	Apogonidae	1.17	3.53

Bongo Net

Density and Size of Fish Egg

	Type of Egg	Density	r	
1	Egg-spherical	93.01293	0.78	
2	Egg-elliptical	316.244	28.6	54.5

Push Net Operation

General Information

Start Operation		Finish Operation	
Time	22.37	Time	22.45
Lat	13 ^o 28' 062" N	Lat	13 ^o 28' 142" N
Long	100 ^o 32' 982" E	Long	100 ^o 32' 438" E
Start Hauling		Finish Hauling	
Time	23.25	Time	23.30
Lat	13 ^o 23' 638" N	Lat	13 ^o 27' 547" N
Long	100 ^o 31' 836" E	Long	100 ^o 31' 677" E

Towing Speed : 2 knots

Push Net

Species composition and density of juvenile fish collected from the push net operation

No.	Family	Amount	Mean of SL (cm)
1	Artherinidae	17	6.74
2	Leiognathidae	82	4.48
3	Clupeidae	5	5.08
4	Carangidae	4	9.10
5	Gerreidae	4	3.98
6	Teraponidae	3	3.27
7	Scatophagidae	1	6.00
8	Scianidae	9	6.17
	Total	125	

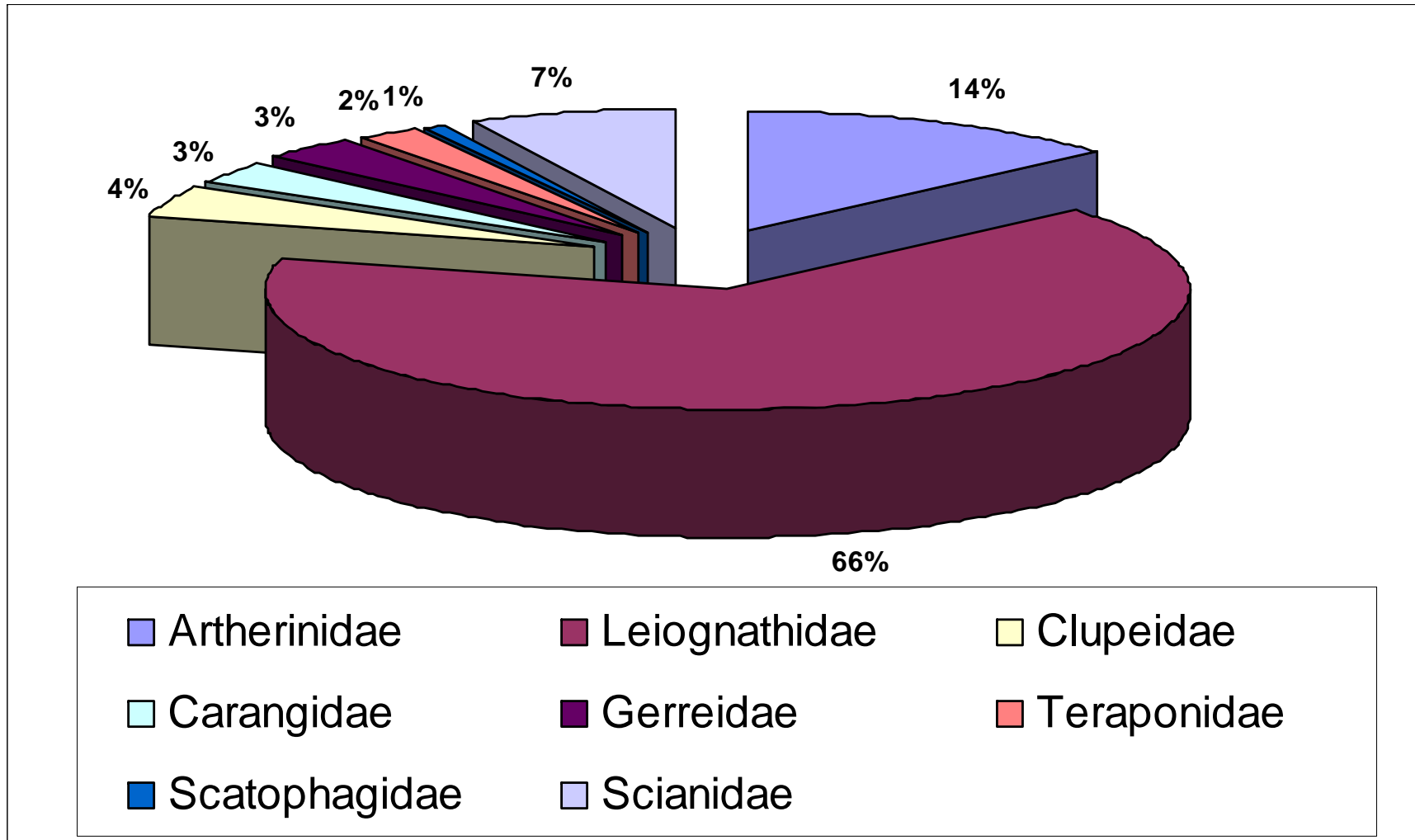
Push Net

Species Composition and Density of Juvenile Fish

No.	Family	Number of Individu in 1kg Sample	Density (ldv. / Hour)
1	Artherinidae	17	391
2	Leiognathidae	82	1886
3	Clupeidae	5	115
4	Carangidae	4	92
5	Gerreidae	4	92
6	Teraponidae	3	69
7	Scatophagidae	1	23
8	Scianidae	9	207
	Total	125	2875

Push Net

Relative Density of Juvenile Fish



Push Net



Scatophagidae



Leiognathidae



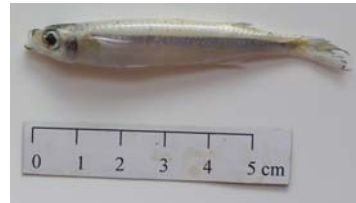
Leiognathidae



Gerreidae



Engraulidae



Artherinidae



Clupeidae



Carangidae



Scianidae



Thank You