

Southeast Asian fisheries development centre
(SEAFDEC)

GROUP PRACTICAL REPORT
(16-31 May, 2007)

REGIONAL TRAINING WORKSHOP ON LARVAL FISH IDENTIFICATION AND FISH EARLY LIFE HISTORY SCIENCE

LARVAL FISH IDENTIFICATION + FISH EARLY LIFE HISTORY SCIENCE

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Object

Practicing the learned lessons from training (fish eggs and larvae sampling and identification techniques, Flow-meter calibration, fishery standardization...)

Time survey

Juvenile fishes- Pushed net boat survey at night 23, May 2007

Fish eggs and larvae- Bongo net 25, May 2007 by MV SEAFDEC 2

Material and methods

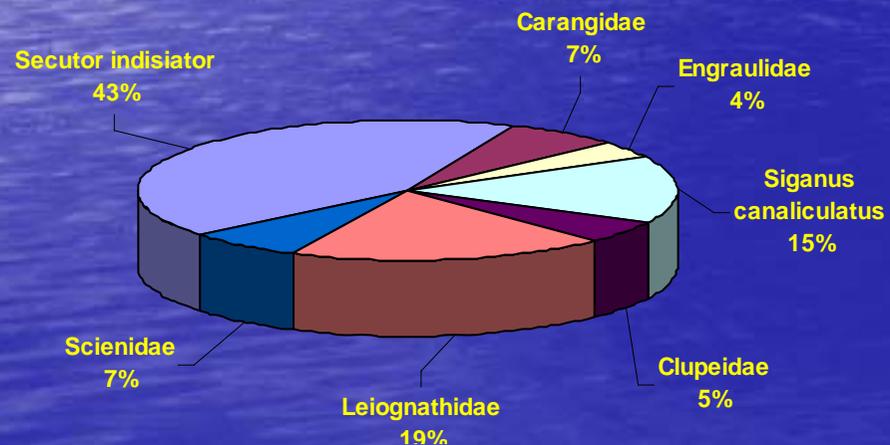
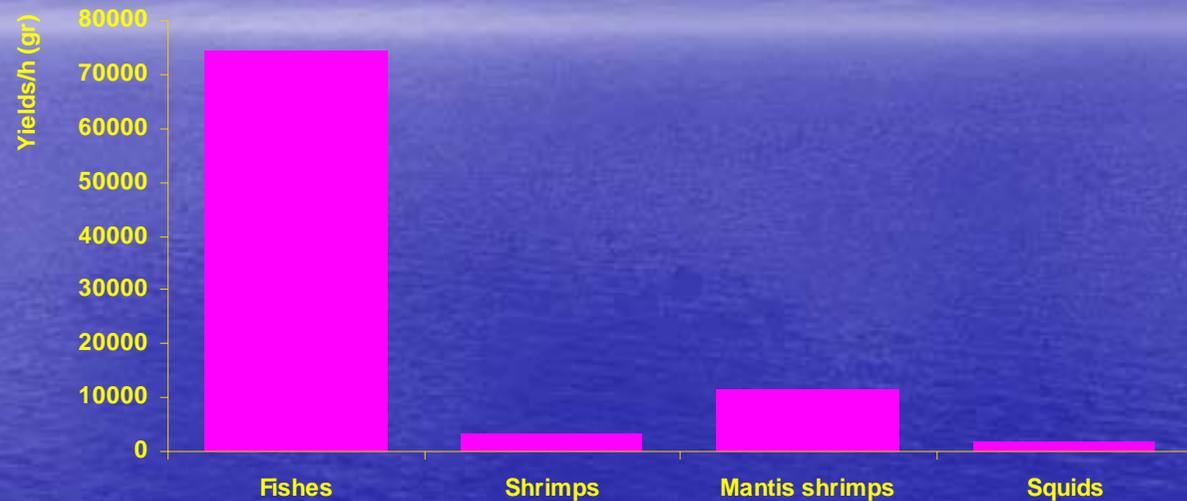
- Pushed net survey
- Bongo net survey
- Some used equations
 - *S*- opened mouth- net area (m²)
 - *C*- calibration factor (r/m)
 - *N*- number in flow meter
 - *V* -Volume of water through the net (m³)
 - *A*- number of collected fish larvae by bongo net
 - *D*- fish larvae density (ind./1000m³)

$$V = \frac{S}{C} * N$$

$$D = \frac{1000 * a}{V}$$

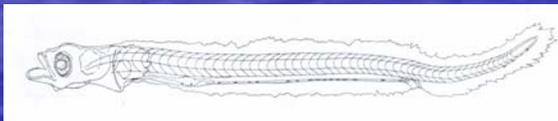
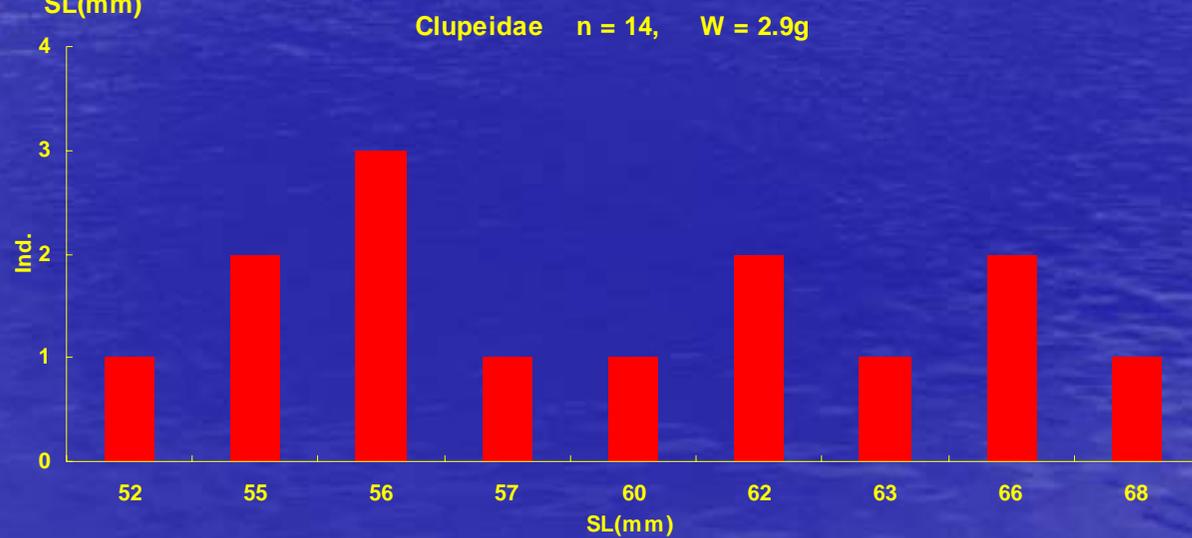
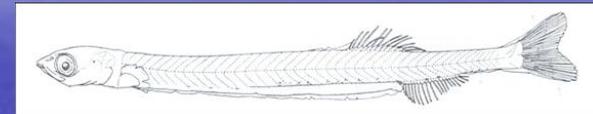
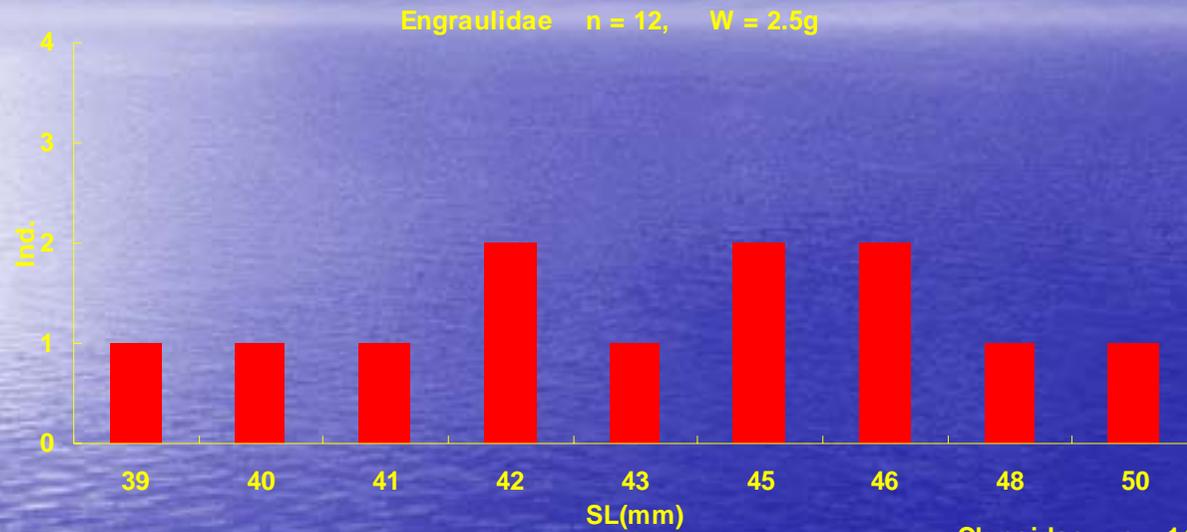
Results

- Juvenile fishes composition



Results

- Length frequency of major juvenile fishes



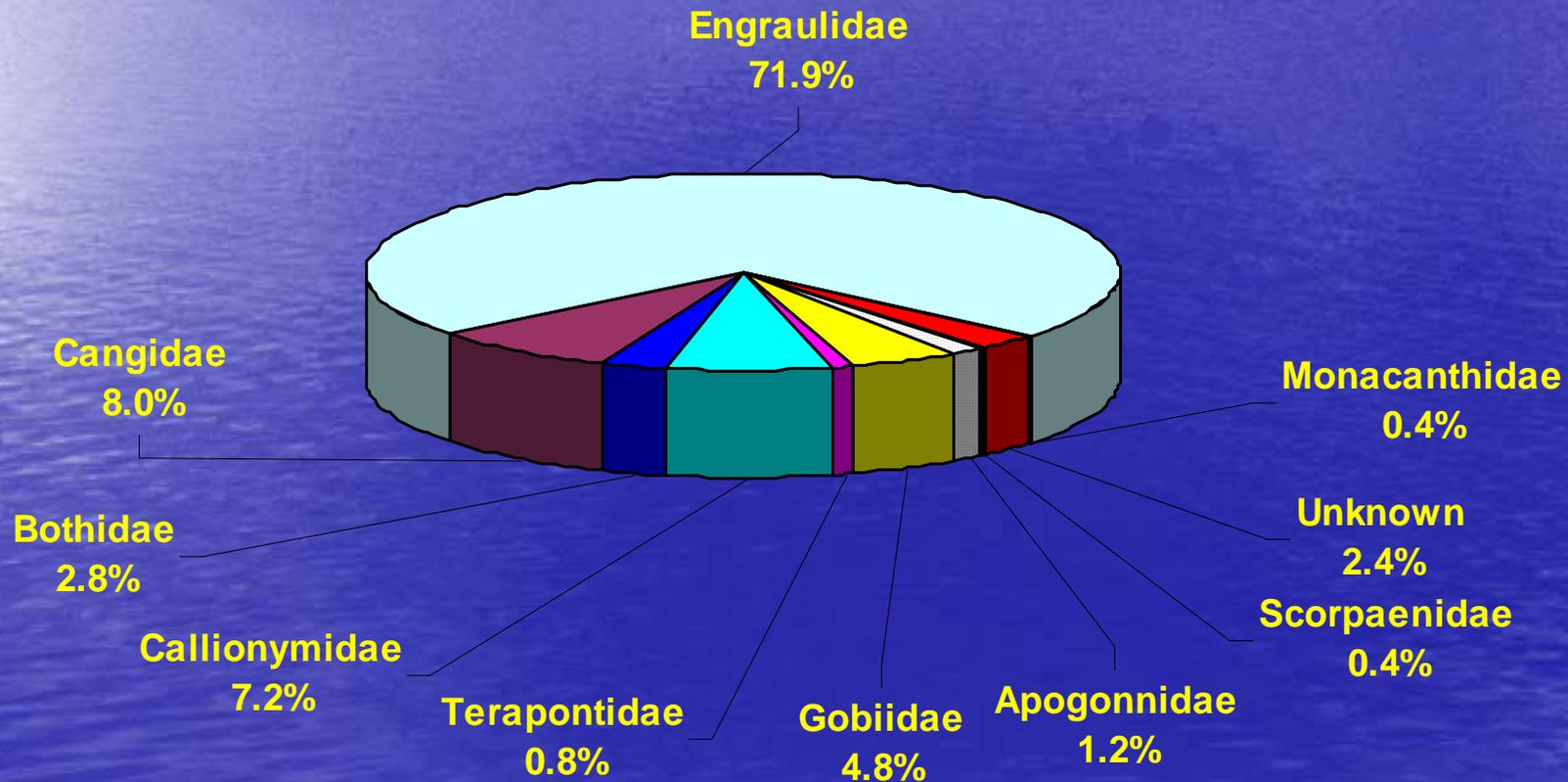
Results

- Fish eggs and larvae

| | Larvae | Eggs |
|-------------------------------------|--------|------|
| No of individuals/sample | 249 | 375 |
| No of families/sample | 9 | 1 |
| Density (inds./1000m ³) | 1457 | 2194 |

Results

- Fish larva percentage



Results

- Fish egg percentage



Discussion

Challenges

- Lack of fishery research equipments
- Low of knowledge on early life fishes identification
- Un-updated data annually on fishery resources, especially fish larvae and juveniles

Needs

- Fishery techniques exchanges via training, workshop, focus on fish larvae and juvenile
- Collaborating within regional countries on fishery resources surveys and assessments
- Funds for fisheries research programs/projects

...?...



Thank you!!!