

Annex 10/5: Identification Results

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RESULTS OF ANALYSIS AND IDENTIFICATION OF FRESH SPECIMENS

Deep-sea fishes collected by M.V. SEAFDEC 2

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Informations of samples

- ☞ Ship name: M.V. SEAFDEC 2.
- ☞ Fishing method: Beam trawl.
- ☞ Cathing:

Date	Locality		Depth
	<i>Lat</i>	<i>Long</i>	
27 March 2009	05°26'00 N - 05°22'60 E	114°20'20 N - 114°18'50 E	127 m
27 March 2009	05°06'80 N - 05°06'90 E	113°54'30 N - 113°58'00 E	213 m

Analyzed specimens

- ✓ Take one specimen;
- ✓ Cleaning specimen (fins);
- ✓ Rinsing and fixing fins;
- ✓ Record information in the tag;
- ✓ Identify to family;
- ✓ Photography;
- ✓ Analyzed: Measuring and counting (record in the form);
- ✓ Continue identify;
- ✓ Fixation (In plastic bag with tag, 10% formalin) and

Next specimen

References used for identification

- Fishes of Japan with pictorial keys to the species. English edition. Vol. 1+2 written by T. Nakabo and et al (2002).
- FAO Species catalogue and
- Other references... (in lab.)
- Using Fishbase software 2004 and <https://www.fishbase.com> to checking ...

RESULTS

- Analyzed 15 specimens of 13 species.
- Identified to name of species: 12 specimens (10 species).
- Identified to name of genus: 2 specimens (2 species).
- Identified to name of family (sub family): 1 specimens (1 species).

** All of specimens are very small, so hard to analyze and identify*

List of species

LARIOMMATIDAE

Number of specimens : 3 (*1 specimen is decomposed and 2 ones are still fresh*)

ID: SEAFDEC 00047 (*small*) and SEAFDEC 00048 (*big*)

Date collected : 27 March 2009

Depth : 127 m

Scientific name: Ariomma indica (Day, 1871)

- ✓ SL: 114.4 mm, D XII, 15; A III, 15; Pec 22; Pel I, 5; C 24; and Gill rakers (upper+lower): 9+15.
- ✓ 2 dorsal fin (different from Cetrolphidae).
- ✓ Anal fin with 15 rays, body aloid and distinctly compressed (different from Nomeidae).
- ✓ First dorsal fin and margin of caudal fin dark.
- ✓ Pelvic fins short (not reading anus).

ID: SEAFDEC 00048



List of species

2. LUTJANIDAE

Number of specimens : 1
 ID: SEAFDEC 00055
 Date collected : 28 March 2009
 Depth : 213 m



Scientific name: Pristipomoides zonatus (Valenciennes, 1830)

- ✓ SL: 190.0 mm, D X, 10; A III, 8; Pec 15; Pel I, 5; C 17;
 Lateral line scales: 64; and Gill rankers (upper+lower): 8+13.
- ✓ Meristic characters are divided two group, first group have a total gill ranker on first arch 27-33, 17-23 and lateral line scale 67-74, 57-67.
- ✓ The species side of body have oblique red and yellow bar.

List of species

3. CEPOLIDAE

Number of specimens : 1
 ID: SEAFDEC 00086
 Date collected : 28 March 2009
 Depth : 213 m



Scientific name: Owstoma sp.

- ✓ SL: 75.5 mm, D III, 24; A I, 17; Pec 20; Pel I, 5; C 17
 and Gill rankers (upper+lower): 17+29.
- ✓ Body no ribbon like, dorsal, anal and caudal fins not continuous.
- ✓ Body rather deep and not slender and not tapering posterior.
- ✓ **Maybe** have big light brown blotches on base of caudal fins.

List of species

4. CAPROIDAE

Number of specimens : 1

ID: SEAFDEC 00091

Date collected : 28 March 2009

Depth : 213 m

Scientific name: Antigonia capros Lowe, 1843

- ✓ SL: 43.0 mm, D XIII, 35; A III, 33; Pec 14; Pel I, 5; C 16 and Gill rankers (upper+lower): 5+13.
- ✓ Similar families of the morphology including the Grammicolepididae and Zeidae, but both families difference numbers of dorsal spines.
- ✓ This in the Caproids have only genus in subfamily of the Pacific Ocean and meristic character difference such as pectoral and second dorsal fin numbers. Caproidae

ID: SEAFDEC 00091



List of species

5. SERRANIDAE

Number of specimens : 1

ID: SEAFDEC 00092

Date collected : 28 March 2009

Depth : 213 m

Scientific name: Plectranthias japonicus (Steindachner, 1883).

- ✓ SL: 150.7 mm, D X, 15; A III, 7; Pec 15; Pel I, 5; C 15+2=17; Lateral line scales: 34; and Gill rankers (upper+lower): 6+12.
- ✓ Caudal fin rounded and without dark blotches.
- ✓ Dorsal fin deeply notched.

ID: SEAFDEC 00092



List of species

6. SOLEIDAE

Number of specimens : 1
ID: SEAFDEC 00093
Date collected : 28 March 2009
Depth : 213 m



Scientific name: Aseraggodes kobensis (Steindachner, 1896).

- ✓ SL: 79.8 mm, D 72; A 52; Pel 5; C 15+2=17 and Lateral line scales: 83.
- ✓ Mouth almost straight or slightly curved and pectoral fin absent.
- ✓ Body almost uniformly brown some indistinct dark brown blotches on ocular-side

List of species

7. CHAMPSODONTIDAE

Number of specimens : 1
ID: SEAFDEC 00108
Date collected : 27 March 2009
Depth : 127 m



Scientific name: Champsodon longipinnis Matsubara & Amaoka, 1964.

- ✓ SL: 73.7 mm, D V, 22; A 19; Pec 15; Pel I, 5; C 13+2=15 and Gill rankers (upper+lower): 1+14.
- ✓ The only species have dark or black pigment on first dorsal fin and tip of upper caudal fin.
- ✓ Difference to numbers of pectoral fin in other species.

List of species

8. TRIGLIDAE

Number of specimens : 1

ID: SEAFDEC 00109

Date collected : 28 March 2009

Depth : 213 m

Scientific name: Pterygotrigla hemistieta (Temminck & Schlegel, 1843).



- ✓ SL: 149.8 mm, D VIII, 11; A 12; Pec 15; Pel I, 5; C 9+2=11 and Gill rankers (upper+lower): 2+10.
- ✓ This genus have been character of large smooth plates to base of dorsal fin spine.
- ✓ 60 scales of along lateral line.
- ✓ Black spot large present on above lateral line or upper part of body and dorsal fins.

List of species

9. NEMIPTERIDAE

Number of specimens : 1

ID: SEAFDEC 00110

Date collected : 27 March 2009

Depth : 127 m



Scientific name: Parascolopsis tosenis (Kamohara, 1938).

- ✓ SL: 65.2 mm, D X, 9; A III, 7; Pec 15; Pel I, 5; C 15+2=17; Lateral line scales: 36 and Gill rankers (upper+lower): 4+5.
- ✓ This species absent suborbital spine.
- ✓ No canine teeth in jaw.
- ✓ 6 rows scale of preopercular.

List of species

10. TRIACANTHOIDIDAE

Number of specimens : 1

ID: SEAFDEC 00111

Date collected : 27 March 2009

Depth : 127 m



Scientific name: Triacanthodes anomalus (Temminck & Schlegel, 1850).

- ✓ SL: 59.6 mm, D VI, 15; A 13; Pec 13; Pel I, 1; C 10+2=12
- ✓ This species have short snout between all the genera.
- ✓ Large eyes and slightly shorter than snout length.
- ✓ Both jaw with 2 rows of teeth and inner row with 1-6 teeth.
- ✓ Body with 2 yellow stripes.

List of species

11. SCORPAENIDAE

Number of specimens : 1

ID: SEAFDEC 00112

Date collected : 27 March 2009

Depth : 127 m



Scientific name: Scorpaenopsis sp.

- ✓ SL: 85.4 mm, D XII, 9; A III, 5; Pec 19; Pel I, 5; C 11+2=13.
and Gill rankers (upper+lower): 8+11.
- ✓ Cheek with ridges and strong spine.
- ✓ Interorbital without scales.
- ✓ Upper opercular spine simple with single or 2-4 cusps.

List of species

12. TETRAODONTIDAE (Sub family Canthigasterinae)

Number of specimens : 2
ID: SEAFDEC 00154 and
SEAFDEC 00155
Date collected : 27 March 2009
Depth : 127 m



Scientific name: Canthigaster inframacula Allen & Randall, 1977.

- ✓ SL: 52.9 and 61.4 mm, D 9; A 9 ~ 10; Pec 15 ~ 16; C 11.
- ✓ Body compressed in cross section and lateral line present.
- ✓ A large black blotch present ventrally on body.

List of species

13. TETRAODONTIDAE (Sub family Tetraodontinae)

Number of specimens : 1
ID: SEAFDEC 00156
Date collected : 27 March 2009
Depth : 127 m



Scientific name: ???

- ✓ SL: 69.5 mm, D 8; A -; Pec 15; C 9+2=11
- ✓ Body round in cross section and have got many orange spot on dark back



Thank you for attention, taught me identification of deep-sea fishes and thank Thai's food!

