



Republic of the Philippines
DEPARTMENT OF AGRICULTURE
Elliptical Road, Diliman, Quezon City, 1100
Telephone Nos. (02) 927-8741 to 56



BFAR ADMINISTRATIVE

CIRCULAR NO. 248

Series of 2013

SUBJECT: Size regulation for sea cucumber collection and trade

WHEREAS, the Philippines has been in the forefront of the multi-million dollar international trade in processed meat of sea cucumber species valued at USD 2 million to 6.8 million and the world's third largest producer and exporter of processed tropical sea cucumber meat products known by the international trade names *beche-de-mer* and *trepang*;

WHEREAS, from 1970 to 1989 Philippine sea cucumber production volume showed steady increase reaching 4000 tons in 1984 valued at almost USD 7 million, which started to decline in the 1990s, bringing the country from second down to third among the top sea cucumber exporting tropical countries, barely maintaining a 1000 metric ton production level consisting mostly of low value and undersized individuals and very few high value species;

WHEREAS, the alarming rate of sea cucumber exploitation for the meat trade, the recent discovery of their potential medical and pharmaceutical applications and the recognition of their ecological importance became worldwide concern and came to the attention of international bodies, such as, the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), the Food and Agriculture Organization and the ASEAN Southeast Asian Fisheries Development Council (SEAFDEC), which organized separate fora to discuss the varied and country-specific issues on sea cucumber fisheries and trade, the outcome of which underscored the overarching need for the producing and exporting countries to enact appropriate management measures for sea cucumbers;

WHEREAS, the Philippines being on top of the trade, is one of only two countries without national legislation for sea cucumbers, despite the fact that the fishery-dependent and independent surveys carried out by the three-year National Sea Cucumber Research Project (NSCRP), a comprehensive taxonomic and fishery investigation of the commercial species of sea cucumber, carried out by the National Fisheries Research and Development Institute (NFRDI) in 15 sites in the 14 regions of the country confirmed the critical state of sea cucumber resource in the historically rich fishing grounds, with only 47 of more than 100 commercial species known to occur in Philippine waters being encountered during the surveys, most of which are low value species in low densities;

WHEREAS, the UPMSI research program with support from DA-BFAR, ACIAR and DOST-PCAMRD conducted resource and fishery assessment surveys and pioneered the research in developing hatchery and grow-out technology for one of the high value species, *Holothuria scabra*, commonly known as sandfish or "putian" in local dialect in collaboration with other institutions and BFAR National Integrated Fisheries Technology Development Center (NIFTDC) for stock enhancement and livelihood support for coastal communities and UPMSI also piloted sandfish communal sea ranching and various trainings on sea cucumber culture, resource assessment and species identification;

WHEREAS, ACIAR also funded WorldFish to conduct value chain analysis of sea cucumber industry in the Philippines, which confirmed that over-exploitation of sea cucumber resource is market-induced due to the continuously high market demand and price and that in order to sustain the resource and improve product value, it is imperative to regulate the size at which individual sea cucumber can be taken or caught;



WHEREAS, the IUCN 2013 Red List of threatened species lists five high value, shallow water sea cucumber species with the Philippines as one of the range countries, as endangered with extinction, namely: *Holothuria lessoni* (golden sandfish), *H. nobilis* (black teatfish), *H. scabra* (golden sandfish), *H. whitmae* (black teatfish) and *Thelenota ananas* (prickly redfish); and five high to medium value species as vulnerable to extinction, namely: *Actinopyga echinites* (deep water redfish), *A. mauritiana* (surf redfish), *A. miliaris* (hairy redfish), *Holothuria fuscogilva* (teatfish) and *Stichopus herrmanni* (curryfish); such list is being used by many range countries as basis in enacting national wildlife laws;

WHEREAS, with the latest IUCN red listing, the outcome of researches carried out by various local institutions on the different aspects of sea cucumber fisheries, utilization and trade and applying the "Precautionary Principle" of the 1983 Rio Declaration on environment and development which states that, "where there are threats of serious or irreversible damage, lack of full scientific certainty shall not be used as a reason for postponing cost-effective measures to prevent environmental degradation," a national policy for this commercially and economically valuable resource that integrates conservation and sustainable livelihood should now be promulgated;

WHEREFORE, in view of these premises and pursuant to Section 11 of Republic Act No. 8550 and Sections 22 and 25 of Fisheries Administrative Order (FAO) No. 233 implementing R.A. No. 9147, the following rules and regulations for the conservation of sea cucumber species belonging to the orders Aspidochirotida and Dendrochirotida in Philippine waters are hereby promulgated for the information, guidance and compliance of all concerned.

Section 1. Definition. – The terms used for purposes of this Order shall be construed as follows:

- a. Sea cucumber species – any echinoderm of the Class Holothuroidea generally having soft, elongated, cucumber-shaped body and bearing clusters of tentacles at the oral end commonly known by various names in local dialects such as, "balat", "balatan", "ba-at" and "bat".
- b. Order Aspidochirotida – taxonomic grouping of commercially important sea cucumber species inhabiting intertidal zone, mangrove forest, seagrass meadows, coral reef and adjacent soft bottom (sandy/muddy) areas.
- c. Order Dendrochirotida – taxonomic grouping of commercially important sea cucumber species inhabiting deeper waters.
- d. Processed meat – meat of sea cucumbers in different forms of preparation, i.e. fresh, frozen, gutted, boiled, salted, smoked, dried, etc. known by the trade names "beche-de-mer" or "trepang"
- e. Dried form – the final processed product of sea cucumber meat in which the moisture content is reduced using appropriate drying methods, which may include sun-drying, smoke-drying or drying under controlled condition, to the required level.
- f. Holothuriidae and Stichopodidae - commercially valuable families of shallow-water sea cucumber species belonging to order Aspidochirotida that include the following genera: *Actinopyga*, *Bohadschia*, *Holothuria*, *Pearsonothuria*, *Stichopus* and *Thelenota*.

Section 2. AWCP and LTP. – Only registered fisherfolk issued with an Aquatic Wildlife Collector's Permit (AWCP) by the BFAR Provincial Fishery Office (PFO) may gather or collect sea cucumbers for commercial trade. Sea cucumbers may not be transported without a Local Transport Permit (LTP) issued by PFO or Fisheries Quarantine Officer.

Section 2. Prohibition. - It shall be unlawful for any person, association or corporation to gather, collect, catch, take, cause to be taken or caught sea cucumber species for commercial trade without an AWCP or to transport without LTP. It shall also be unlawful for any person, association

or corporation to possess, transport, sell, trade or export sea cucumber species in any state or form except in dried form with minimum size of 2 inches or 5 centimeters in length.

Section 3. Exception. - The Secretary of Agriculture, pursuant to Sections 22 and 25 of FAO 233 and upon the recommendation of the Director of the Bureau of Fisheries and Aquatic Resources (BFAR), may grant special permit to legitimate research or academic institutions to gather, collect, catch, possess or transport sea cucumber species for scientific and/or educational purposes, subject to such terms and conditions as the Secretary may deem wise to impose.

Section 4. Penalties. - (a) Trading, selling or buying undersized sea cucumbers is punishable by imprisonment of ten (10) days to one (1) month and/or fine of two hundred (P200) to twenty thousand pesos (P20,000);

(b) Transporting of undersized sea cucumbers or transporting of sea cucumbers without LTP shall be punishable by imprisonment of five (5) days to ten (10) days and a fine of two hundred (P200) to one thousand pesos (P1,000);

(c) Collecting, taking, gathering sea cucumbers without AWCP shall be punishable by imprisonment of ten (10) days to one (1) month and a fine of one thousand (P1,000) to five thousand pesos (P5,000); and,

(d) Exporting undersized sea cucumbers shall be punishable by eight (8) years imprisonment and a fine of eighty thousand pesos (P 80,000).

In addition to the above penalties, the administrative penalties of confiscation, forfeiture of collected sea cucumber species, its by-products or derivatives and all paraphernalia, tools and conveyances used in the commission of the above-prohibited acts shall also be imposed.

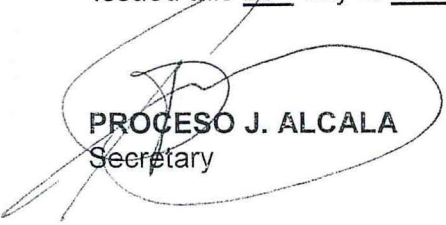
The fines herein prescribed shall be increased by at least ten percent (10%) every three years to compensate for inflation and to maintain the deterrent function of such fines pursuant to Section 28 of RA 9147.

Section 5. Disposition. - Confiscated sea cucumber species in violation of this Order shall, if applicable, be returned to its natural habitat, buried or donated to museums or educational institutions or through other means as determined by the BFAR.

Section 6. Repealing Clause. - All orders, rules and regulations or parts thereof inconsistent with the provisions of this Order are hereby repealed.


Section 7. Effectivity. - This Order shall take effect fifteen (15) days after its publication in a newspaper of general circulation and upon acknowledgement by the Office of the National Administrative Registry (ONAR).

Issued this 25th day of November 2013 at Quezon City, Philippines.


PROCESO J. ALCALA
Secretary

DEPARTMENT OF AGRICULTURE
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Recommended by:


ATTY. ASIS G. PEREZ
Director, BFAR

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Annex A

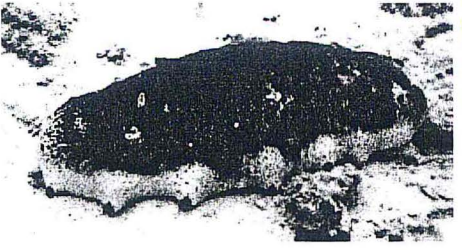
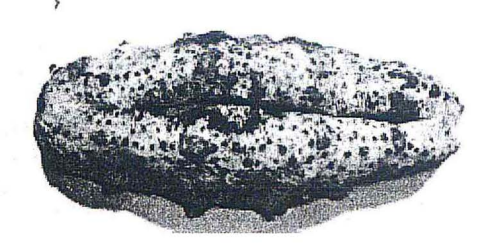
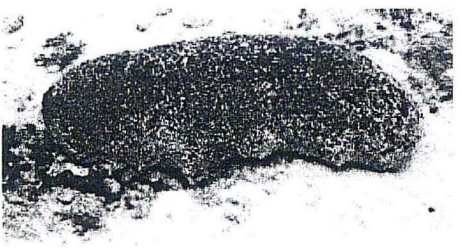
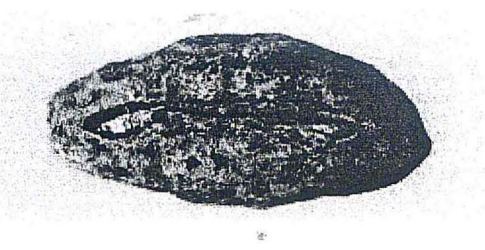

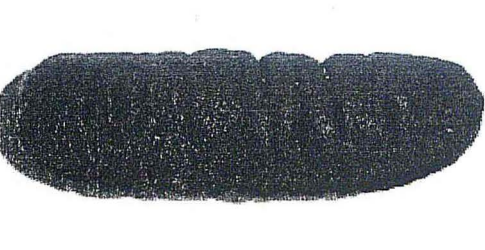
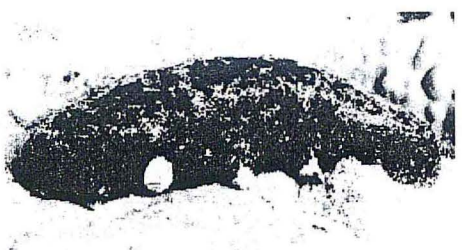
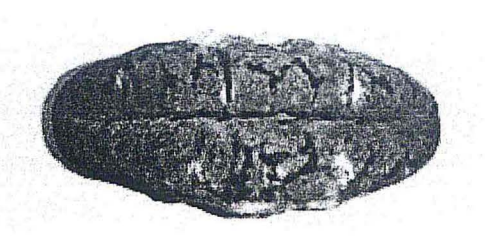
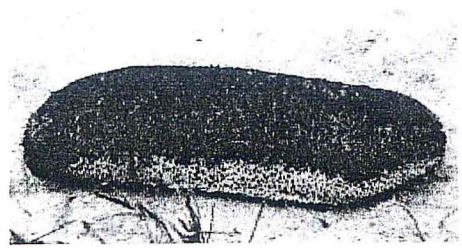

Common Commercial Sea Cucumber Species in the Philippines

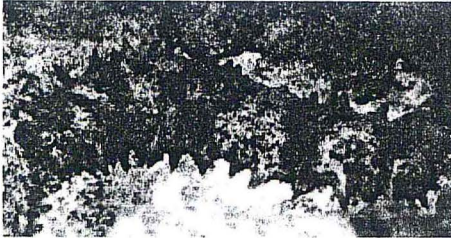
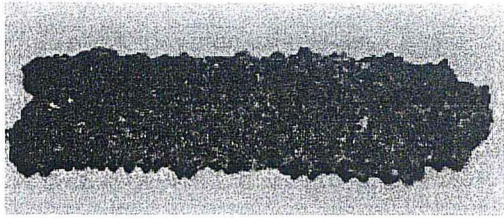

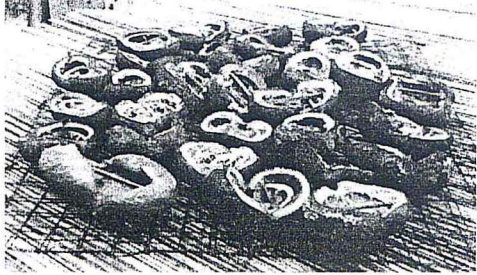
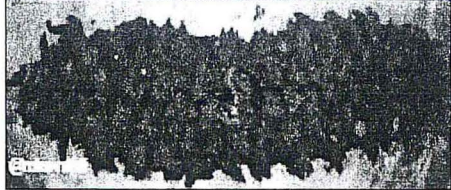

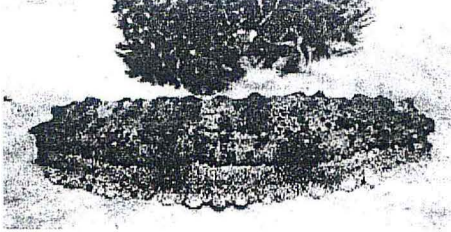

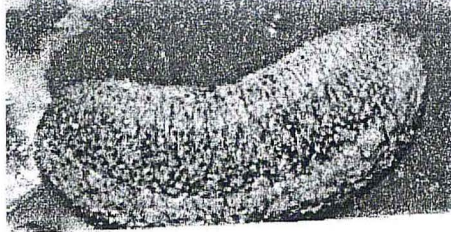

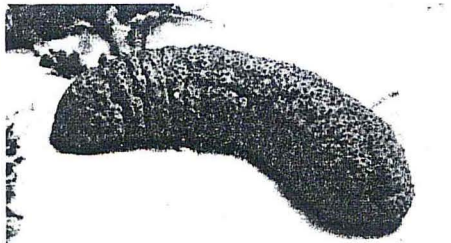

Scientific name	Local/Common name	English name
A. HIGH VALUE SPECIES*		
1. <i>Holothuria fuscogilva</i>	<i>Susuan</i>	White teatfish
2. <i>H. whitmaei</i>	<i>Bakungan, Kagisan, Sus-an</i>	Black teatfish
3. <i>H. scabra</i>	<i>Putian, Cortido, Kagisan</i>	Sandfish
4. <i>H. nobilis</i>	<i>Susuan, Kiskisan, South hud</i>	Black teatfish
5. <i>H. lessoni (versicolor)</i>	-	Golden sandfish
6. <i>Stichopus horrens</i>	<i>Hanginan</i>	Curryfish
7. <i>Phyllophorus proteus</i>	<i>Bola-bola</i>	-
B. MEDIUM VALUE SPECIES*		
8. <i>Thelenota anax</i>	<i>Legs, Paag daga</i>	Amberfish
9. <i>H. spinifera</i>	-	-
10. <i>S. hermanii</i>	<i>Hanginan</i>	Curryfish
11. <i>S. chloronotus</i>	<i>Kwatro-kantos (no size classification)</i>	Greenfish
12. <i>S. variegatus</i>	<i>Gadul, daremusak</i>	-
13. <i>T. ananas</i>	<i>Tinikan, Pinya-pinya</i>	Prickly redfish
14. <i>Actinopyga echinites</i>	<i>Khaki</i>	Deep-water redfish
15. <i>A. lecanora</i>	<i>Buli-buli, Monang</i>	Stonefish
16. <i>A. milliaris</i>	<i>Khaki</i>	Blackfish
17. <i>A. mauritiana</i>	<i>Bakungan, Monang</i>	Speckled sea cucumber, Surf redfish
C. LOW VALUE SPECIES*		
18. <i>H. atra</i>	<i>Black beauty</i>	Lollyfish
19. <i>H. fuscopunctata</i>	<i>Sapatos</i>	Elephant trunkfish
20. <i>S. vastus</i>	-	Brown curryfish
21. <i>H. notabilis</i>	-	-
22. <i>H. edulis</i>	<i>Hotdog</i>	Pinkfish
23. <i>H. rigida</i>	<i>Batunan, Bat-onan</i>	Rigid sea cucumber
24. <i>H. pulla</i>	<i>Patola red</i>	-
25. <i>T. rubralineata</i>	-	Red-striped sea cucumber
26. <i>H. leucospilota</i>	<i>Balat-uwak</i>	White threads fish
27. <i>H. coluber</i>	<i>Patola white, Tambor, Batuwak, Balat-aso</i>	Snakefish
28. <i>H. hilla</i>	<i>Rotong, Batuli</i>	-
29. <i>H. impatiens</i>	<i>Sunlot</i>	Impatient sea cucumber
30. <i>H. fuscocinerea</i>	<i>Labuyo, Puyos</i>	-
31. <i>Bohadschia argus</i>	<i>Matang-itik</i>	Leopard fish
32. <i>B. vitiensis</i>	<i>Lawayan-taba</i>	Brown sandfish
33. <i>B. marmorata</i>	<i>Lawayan</i>	Chalky sea cucumber
34. <i>B. similis</i>	<i>Lawayan</i>	Brown-spotted sea cucumber
35. <i>Personothuria graeffei</i>	<i>Flower</i>	Black-spotted sea cucumber

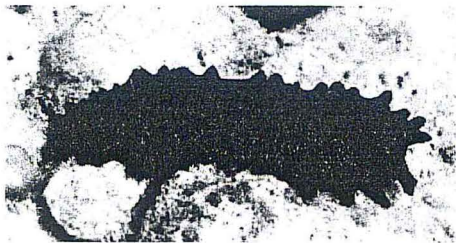

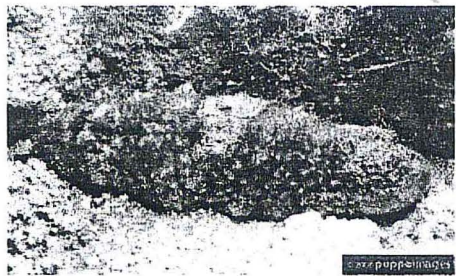
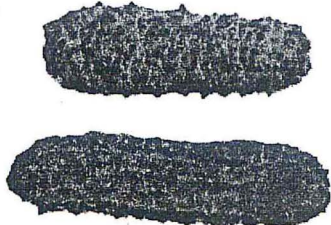
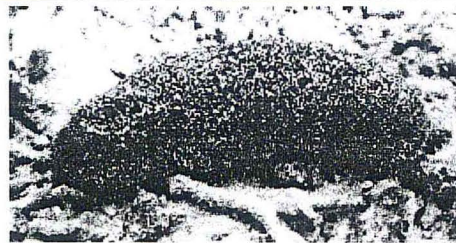
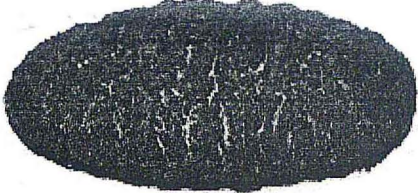
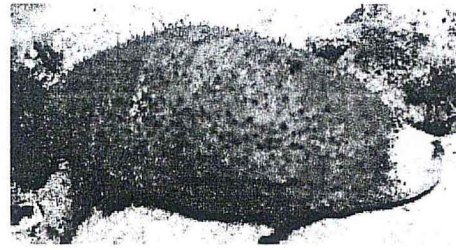
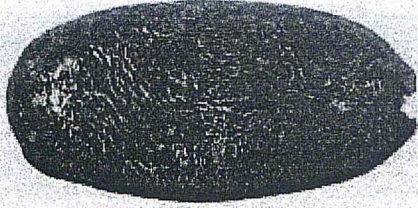


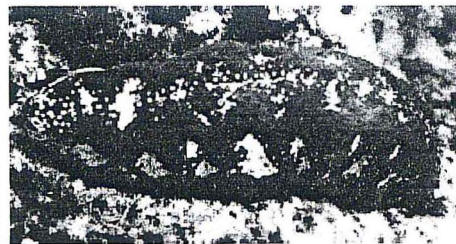
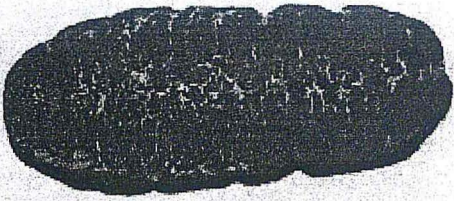
*Species categorization (as to high, medium, low value) was based from FAO Fisheries and Aquaculture Technical Report 2010. Relative value of species may vary depending on the size, market demand, locality and supply.

Annex B

Common Commercial Sea Cucumber Species in the Philippines In Fresh and Dried Forms

Scientific Names	Fresh	Dried
High Value Species		
<p><i>Holothuria fuscogilva</i></p> <p>(Vulnerable, IUCN 2013 Red List of Threatened Species)</p>		
<p><i>H. whitmaei</i></p> <p>(Endangered, IUCN 2013 Red List of Threatened Species)</p>		
<p><i>H. scabra</i></p> <p>(Endangered, IUCN 2013 Red List of Threatened Species)</p>		
<p><i>H. nobilis</i></p> <p>(Endangered, IUCN 2013 Red List of Threatened Species)</p>		
<p><i>H. lessoni (versicolor)</i></p> <p>(Endangered, IUCN 2013 Red List of Threatened Species)</p>		

<p><i>Stichopus horrens</i></p>		
<p><i>Phyllophorus proteus</i></p>		
<p>Medium Value Species</p>		
<p><i>Thelenota ananas</i> (Endangered, IUCN 2013 Red List of Threatened Species)</p>		
<p><i>T. anax</i></p>		
<p><i>H. spinifera</i></p>		
<p><i>S. herrmanni</i> (Vulnerable, IUCN 2013 Red List of Threatened Species)</p>		

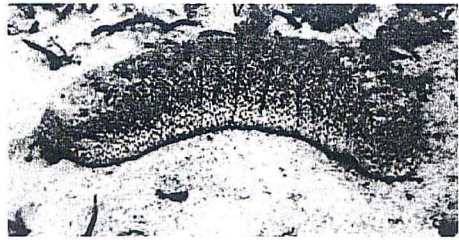
<p><i>S. chloronotus</i></p>		
<p><i>S. variegatus</i></p>		
<p><i>Actinopyga echinites</i> (Vulnerable, IUCN 2013 Red List of Threatened Species)</p>		
<p><i>A. lecanora</i></p>		
<p><i>A. milliaris</i> (Vulnerable, IUCN 2013 Red List of Threatened Species)</p>		
<p><i>A. mauritiana</i> (Vulnerable, IUCN 2013 Red List of Threatened Species)</p>		

Low Value Species

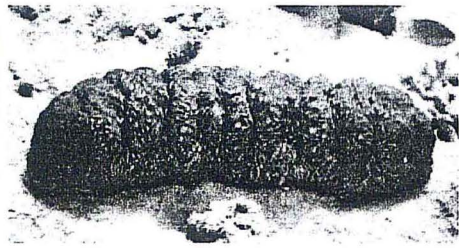
H. atra



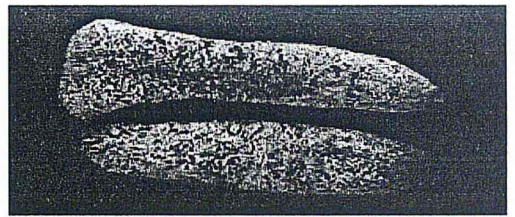
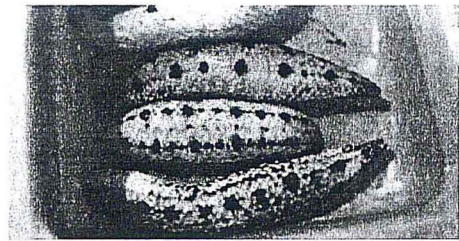
H. fuscopunctata



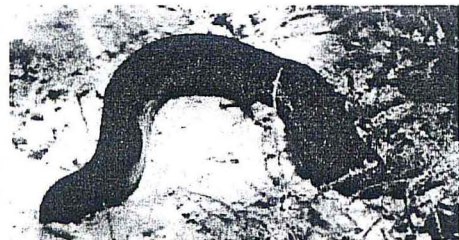
S. vastus



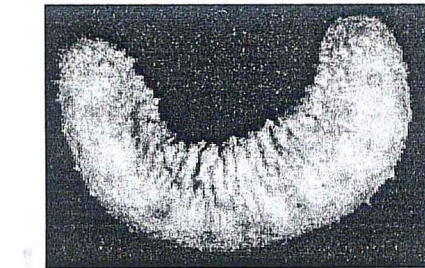
H. notabilis

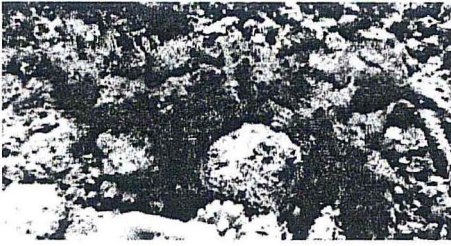



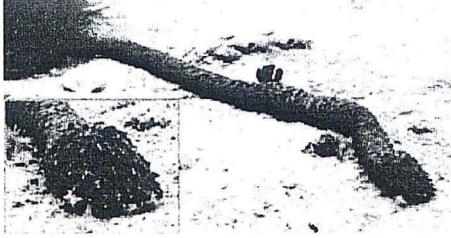
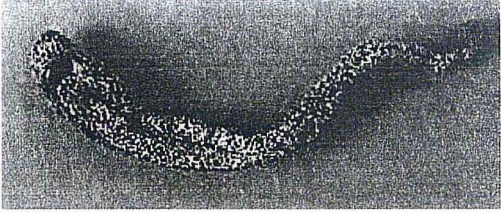


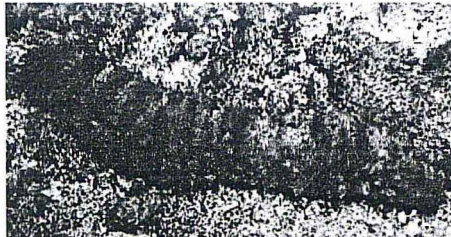
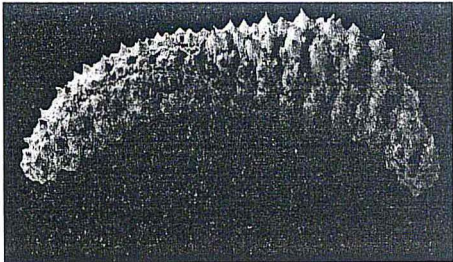
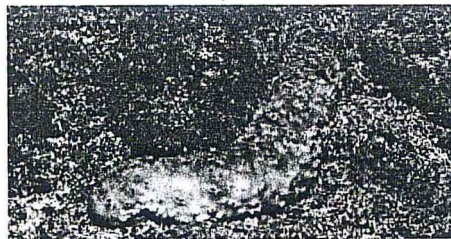
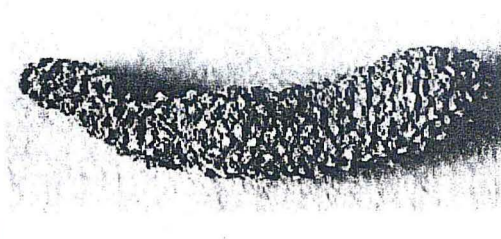


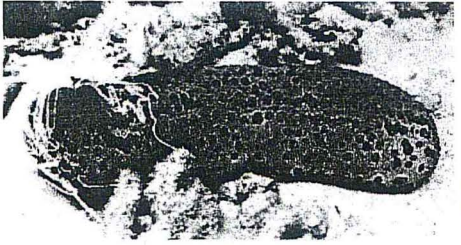
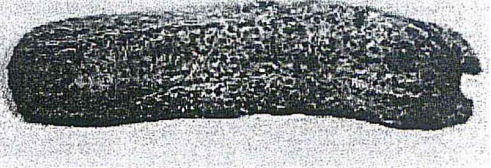
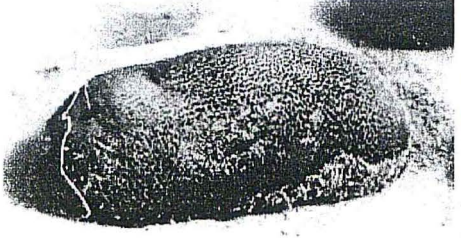



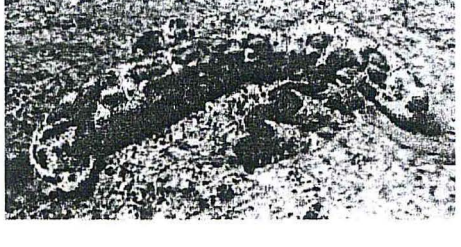

H. edulis



H. rigida



<p><i>T. rubralineata</i></p>		
<p><i>H. leucospilota</i></p>		
<p><i>H. coluber</i></p>		
<p><i>H. hilla</i></p>		
<p><i>H. impatiens</i></p>		
<p><i>H. fuscocinerea</i></p>		

<i>Bohadschia argus</i>		
<i>B. vitiensis</i>		
<i>B. marmorata</i>		
<i>Personothuria graeffei</i>		

* Images taken from: Purcell, S.W., Samyn, Y. & Conand, C. *FAO Species Catalogue for Fishery Purposes*. No. 6. Rome, FAO. 2012. 150 pp.

Published on 04 Dec 2013

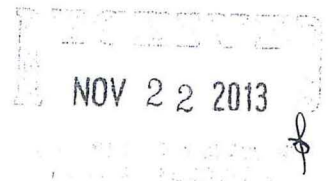
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Republic of the Philippines
Department of Agriculture
BUREAU OF FISHERIES AND AQUATIC RESOURCES
3rd Floor, PCA Building, Elliptical Road, Diliman, Quezon City
Tel. Nos. 929-9597, 929-8074, 426-6532
Fax Nos. 929-8074, 426-6532

18 November 2013



MEMORANDUM
FOR : **PROCESO J. ALCALA**
Secretary, Department of Agriculture

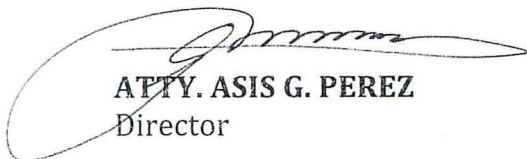
FROM : **ATTY. ASIS G. PEREZ**
Director

SUBJECT : **Approval of BFAR Administrative Circular**
entitled "Size Regulation for Sea Cucumber
Collection and Trade"

Respectfully forwarded for your approval is the BFAR Administrative circular entitled "*Size Regulation for Sea Cucumber Collection and Trade*".

The said FAO was presented for public consultation to stakeholders in two national *fora* called "*National Forum on Sea Cucumber Fisheries Management*" organized by the Bureau of Fisheries and Aquatic Resources (BFAR) and National Fisheries Research and Development Institute (NFRDI) in 2006 and 2010. It was also presented for final consultation with the members of the National Fisheries and Aquatic Resources Management Council (NFARMC) last September 25, 2013 and was unanimously approved.

For your consideration and signature.



ATTY. ASIS G. PEREZ
Director

