

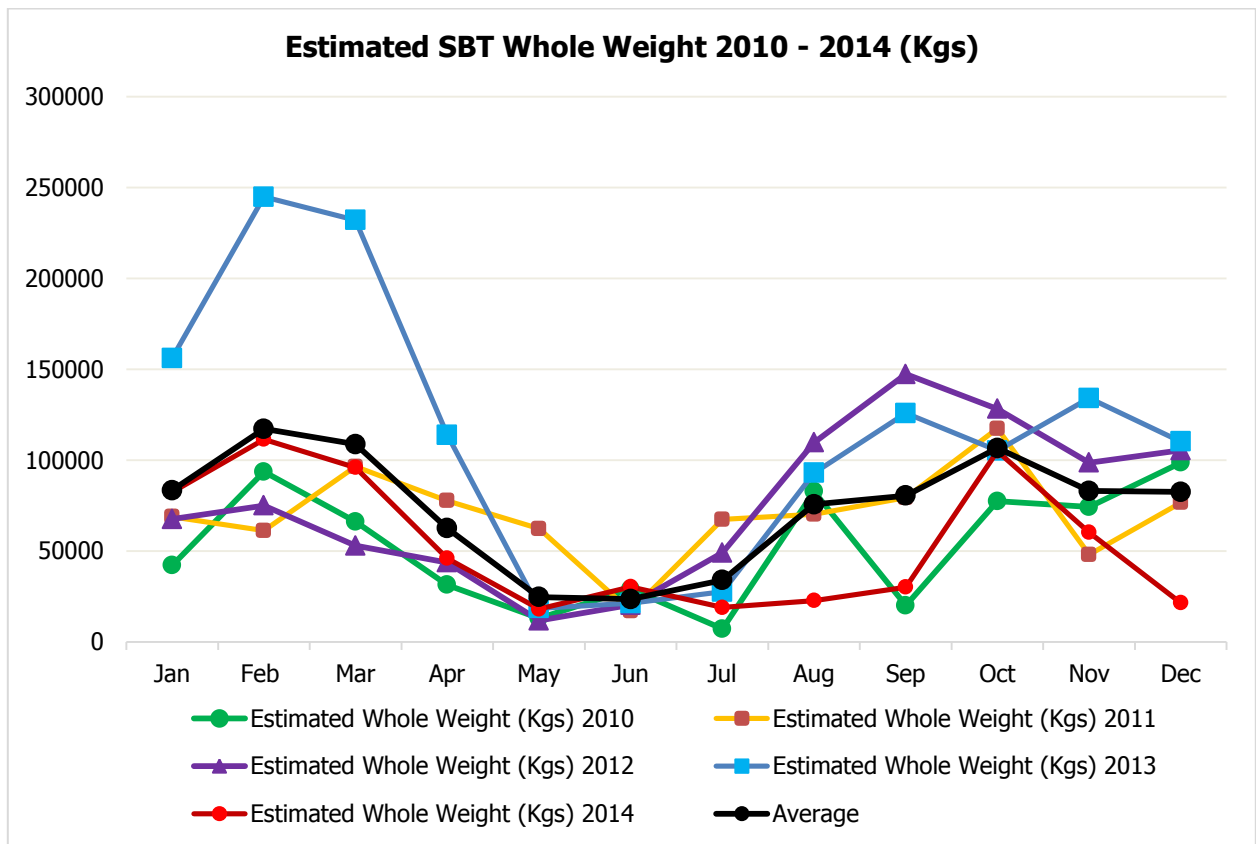
2015 ANNUAL REPORT TO THE ECOLOGICALLY RELATED SPECIES WORKING GROUP (ERSWG)

REPUBLIC OF INDONESIA

**RESEARCH CENTER FOR FISHERIES MANAGEMENT AND CONSERVATION
AND
DIRECTORATE GENERAL OF CAPTURE FISHERIES**

1. Introduction

Southern bluefin tuna (*Thunnus maccoyii*) was caught as bycatch of Indonesia tuna longline vessel targeting bigeye tuna and yellowfin tuna operating in the Indian ocean but mostly within Indonesia Fisheries Management Area 573. As bycatch, SBT is caught within the whole year as reflected in the following graph:



From the average catch within five (5) years as reflected in the above graph, we can conclude that monthly catch is fluctuated, but tend to increase from July up to February and decreasing from February to June yearly.

This report includes information on Ecologically Related Species (ERS) of Indonesia tuna longline fisheries collected by scientific observers on-board updated to 2013 and 2014.

2. Review of SBT Fisheries

Indonesia has developed its tuna fisheries since 1970s, but for southern bluefin tuna catch recording was initiated appropriately since 2008, and in fact that hundreds of Indonesia longline vessels had SBT catch record. Since 2008, Indonesia has become a full member of the Extended Commission of CCSBT and agreed on its national quota of 750 tons/year. During 2011-2014, Indonesia annual catch were more than its national quota, that it may be resulted from the involvement of hundreds of small-scale tuna longline vessels in this SBT fisheries. From 2015, Indonesia started to allocate quota to each company through three (3) associations, and there are 17 companies having received its own quota. In this scheme, each company has to submit the list of their vessel greater than 30 GT authorized to fish for SBT and those vessels have also to be included on the CCSBT Record of Vessel Authorized to Fish for SBT. And there are 211 tuna longline vessels greater than 30 GT have been listed as authorized vessels to fish for SBT. To support the effective implementation of this scheme, Indonesia has developed an Application System of CDS and will be fully operated from January 2015. Under this system, quota allocation for each company will be controlled automatically at the time of submission of CDS form for its validation. In this system, CDS form for validation has to be submitted this on-line system.

In addition to that, there are about 305 small-scale longline vessels (smaller than 30 GT) that are possible to catch SBT, of which 120 out of them have been included on the CCSBT Record of Vessel Authorized to Fish for SBT. In fact, SBT is un-intended bycatch for this fleets, therefore national quota did not allocate to them due to difficulties in practical.

Annual number of Indonesia tuna longline vessels included on the CCSBT Record of Vessel Authorized to Fish for SBT is shown in the Table 1. Number of vessel is fluctuated due to validity period of their fishing permit is different each other.

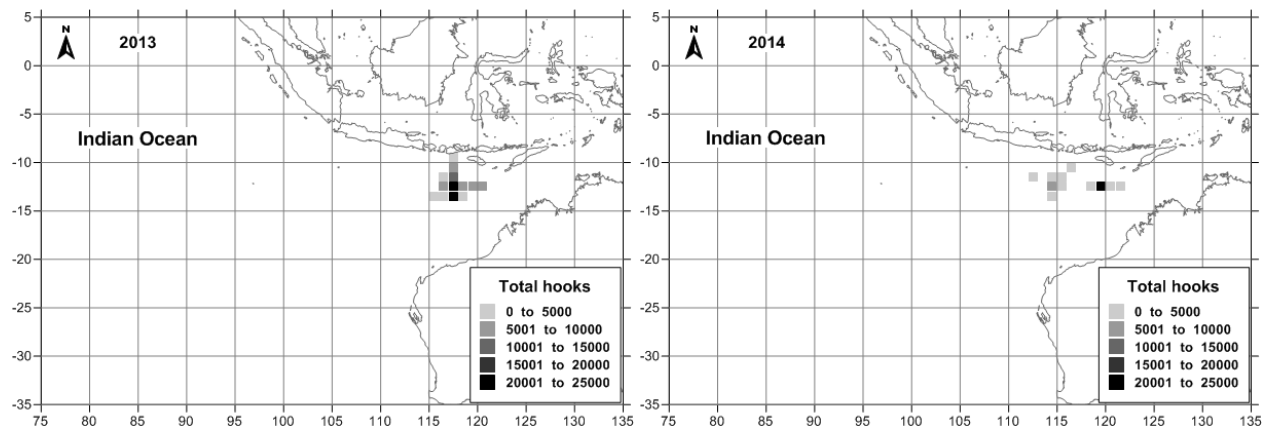
In 2013 and 2014, there were 386 and 336 tuna longlines vessel were included on the CCSBT Record of Vessel Authorized to fish for SBT. All vessels are greter than 30 GT. The total annual catch in 2013 and 2014 were 1,382,645 Kgs and 642,845 Kgs (temporary figure) respectively.

In 2013, catch was taken from the CCSBT statistical area 1 (77.04%) and statistical area 2 (17.23 %) and statistical area 8 (5.29) and statistical area 9 (0.44%) of the total annual catch. While in 2014, catch was taken from CCSBT statistical area 1 (97.01%) and statistical area 2 (2.27%) and statistical area 8 (0.72) of the total annual catch.

3. Fisheries Monitoring for each fleet

Indonesia commenced scientific observer program in 2005, it is not exclusively to SBT fishery but to tuna fishery. Scientific observer on-board will carry out its task in accordance with the template/guideline adopted by IOTC and CCSBT. In 2013, 4 observers had been deployed on-board and in 2014, only 2 observers had been deployed due to budget limitation. All tuna longline vessel were fishing in the CCSBT Statistical Area No. 1.

The observer coverage in 2013 and 2014 was 0.16 % and 0.07 % respectively, as shown in Table 2. All data collected by observer was validated by a group of scientist from Reserach Center of Fisheries Management and Conservation. During the trip, they observed and collected data based on the template as far as possible, such as number of catch, discard/release (dead or live), species composition, gear type, catch and effort including biological data, etc. Catch and Effort data was daily recorded in the fishing logbook and reported to the principal of base-port.



To increase data collection by observer on-board as required by RFMO such IOTC and CCSBT, since 2013 Directorate General of Capture Fisheries has established national observer program. Under this program, there are 6 (six) tuna longline vessels had been observed in 2014, of which the collected data need to be further validated by the scientists from Reserach Center of Fisheries Management and Conservation, particularly in species identification such as sharks, ray as well as other spcesies.

4. Sea-Birds

There was no sea-birds caught during the observed period.

5. Other non-target species

Total number of non-target species such as sharks, ray and marine turtle by species was caught is shown in Table 3. In 2013, A total of 53 individuals sharks were caught, 8 species were recorded as specified in the table. A total of 518 individuals of rays were caught, 2 species was recorded and 53 out of them were alive released. A total of 23 individuals of marine turtle were cuaght, 2 species were recorded and 17 were alive released.

In 2014, A total of 13 individuals sharks were caught, 3 species were recorded as specified in the Table 3. A total of 236 individuals of rays were caught, 1 species were recorded. A total of 1 individuals of marine turtle was caught and it was alive released.

6. Marine mammal and marine reptile

There was no intraction with marine mammal and marine reptile.

7. Mitigation measures to seabirds and other species bycatch.

In accordance with Ministrial Regulation No. 12/2002, it is mandatory for each tuna longline vessel to implement mitigation measure to seabirds when they are fishing in south of 25° S. The option of night setting, seabirds scalling line and weight line has become a requirement. In relation to mitigation measure on marine turtle, it is a requirement for tuna longline vessel to carry on-board a necessary equipment to appropraite release of marine turtle caught incidentally, such as de-hooker, line-cutting and scope net.

8. Public awareness building activities

Awareness building activity to protect ERS and bycatch such as marine turtle, seabirds and sharks, has been developed in form of printing material such as poster and leaflet. This material has been widely distributed to all stakeholders of tuna fisheries, particularly in Bali and Jakarta where SBT is commonly landed. The printing material as shown in Table 4.

9. Information on other ERS (non-bycatch) such as prey and predator species

There was no interaction with prey and predator species.

10. Implementation of IPOA Seabirds and IPOA Sharks

Indonesia is drafting national legislation to implement IPOA Seabirds and is at the final process to adopt IPOA Sharks into its national legislation.

11. Others

The list of whole species observed by observer is shown in the Table 5.

Tabel 1 : Annual Number of Indonesia Longline Vessel fishing for Tuna including SBT
And Annual Catch of SBT catches in the CCSBT Convention Area, 2008-2014

Year	Number of Longline Vessel	Estimated Catch (Kgs)
2009	438	640,681
2010	272	635,555
2011	274	842,397
2012	317	909,755
2013	386	1,382,645
2014	336	642,845*

Note : * temporary figure

Tabel 2 : Observer Coverage of SBT Catch and Hooks observed under Indonesia Observer Program, 2013-2014

Year	Vessels Observed	Hooks Observed (x1000)	Total Hooks Estimated (x1000)	Catch Observed SBT (n)	Coverage (%)
2013	4	145.8	92.640	25	0.16
2014	2	54.2	80.640	12	0.07

Table 4. Public Awareness Building Activities

a. Poster



b. Leaflet

A. Circle Hook
Circle hook pada perikanan tuna longline telah terbukti dapat mengurangi tangkapan penyusut laut. Dari berbagai uji coba, diketahui bahwa dengan menggunakan circle hook pada tuna longline, jumlah hasil tangkapan tuna tidak mengalami penurunan, sebaliknya dengan penyusut laut telah terbukti berkurang secara signifikan.

LONGLINE BOOK
LUN LUN LUN LUN

TUNA CIRCLE HOOK

Untuk mitigasi bycatch dari mata pancing ditargetkan dengan menggunakan de hooker, berupa alat bantu yang dapat melepas bycatch dengan cepat dan efisien, sehingga mengurangi pelepasan bycatch untuk bertahan hidup. Proses dan lamanya pelepasan bycatch dari mata pancing merupakan aspek penting yang menentukan tingkat bertahan hidup (survival) bycatch yang dilepaskan dari mata pancing.

C. Trawlless atau Streamer Lines
Trawl Lines atau streamer lines merupakan pita atau tali yang dipasang pada bagian belakang kapal tuna longline, biasanya dibuat pembuat dan pelancong sehingga ketika kapal berlayar, tali ini akan melayang-layang dan berfungsi untuk menarik mudi dari herring boat, agar barang laut tidak mendarat dan tidak menangsa umpan ketika setting sedang dilaksanakan.

Terdapat mitigasi untuk burung laut lebih efektif dalam penggunaan Trawlless atau Streamer Lines dikombinasikan dengan tindakan di bawah ini:

- Setiap di malam hari dengan pencahayaan minimum ditutupi dek kapal.
- Penggunaan pemberat untuk brand line agar umpan cepat tenggelam.
- Bila menggunakan umpan cumi, diberikan warna-biru.

Nal Lainya yang Harus Diperhatikan untuk Mengurangi Tangkapan Bycatch
Disamping tindakan mitigasi sebagaimana telah diuraikan diatas, terdapat faktor lain yang harus diperhatikan dalam upaya mengurangi tangkapan bycatch, seperti:

- Menggunakan mata penangkapan ikan yang dapat mengurangi jumlah bycatch. Tindakan ini dapat dilakukan, misalnya, dengan melongkar kegiatan penangkapan ikan di wilayah penangkapan tertentu dan pada musim tertentu, karena berdasarkan bukti ilmiah, pauti dikalpa pada saat itu terjadi migrasi bycatch ke kawasan tersebut.
- Pada saat cara penangkapan ikan yang merusak lingkungan dan ekosistem, seperti bom ikan dan potakam (facur), wajib ditegaskan secara hukum. Tindakan ini menjadi satu-satunya jalan untuk melindungi keanekaragaman hayati, ekosistem dan lingkungan di bawah air.

INFORMASI
Direktorat Sumberdaya Ikan
Direktora Jenderal Perikanan Tangkap
Kementerian Kelautan dan Perikanan
Jl. Medan 100, 20131, Medan
Telp: (011) 2190101 (Pusat), (011) 2190102 (Kantor), (011) 2190103 (Kantor)

Pendahuluan
Perjanjian Internasional the United Nation Fish Stocks Agreement 1995 telah menetapkan prinsip dan acuan pengambilan tindakan ikan yang beresaja (Highly migratory fish stocks), termasuk mendukung penyesuaian praktik penangkapan berdasarkan stok acuan (reference point). Setelah 70 negara, dan Uni Eropa telah menandatangani the United Nation Fish Stocks Agreement 1995, termasuk Indonesia melalui Undang-Undang Nomor 21 Tahun 2009, Perjanjian Internasional tersebut mengharuskan setiap negara mengambil berbagai langkah untuk melindungi hasil tangkapan sampingan (bycatch) dari jenis spesies lainnya yang secara ekologi beresaja dengan tuna (Ecologically Related Species - ERS). Oleh sebab itu, Regional Fisheries Management Organization (RFMO) telah mengadopsi berbagai tindakan penangkapan dan manajemen terkait dengan tindakan mitigasi bycatch dan ERS. Dewasa ini, terdapat kecenderungan bahwa keberhasian melaksanakan tindakan mitigasi terhadap bycatch dan ERS menjadi salah satu indikator keberhasilan pengelolaan tuna secara berkelanjutan.

Pengertian Bycatch dan ERS
Hasil tangkapan sampingan (bycatch) dalam perikanan tuna adalah hasil tangkapan jenis ikan yang tidak menjadi target sasaran (non target species) kegiatan penangkapan seperti cucur, sedangkan Ecologically Related Species (ERS) adalah jenis spesies lain yang secara ekologi beresaja dengan tuna, seperti burung laut, penyusut laut, dan kelompok mura-mura.

Penanganan Hasil Tangkapan Sampingan
Target utama hasil tangkapan (target species) perikanan tuna di Indonesia umumnya didominasi 3 (tiga) jenis yaitu: Halibut (Hokohimi), Tuna mata besar (Bigeye tuna) dan Cakalang (Skipjack tuna), namun juga terdapat jenis Tuna sirip biru selatan (Southern bluefin tuna) dan Akabara (Yellowfin).

Tindakan Mitigasi Bycatch
Penggunaan berbagai tindakan mitigasi bycatch telah dipromosikan secara luas, seperti:

5. Light Stick pada Alat Tangkap Jaring Insang Pantai (Cantel/Gilnet)
Light stick dapat dipergunakan untuk mengurangi tangkapan penyusut laut sebagai bycatch. Sebagaimana diketahui bahwa penyusut laut sangat sensitif terhadap cahaya dan biasanya menghindari saat melihat pancaran cahaya pada permukaan laut di malam hari. Reaksi negatif penyusut laut terhadap cahaya, dapat dimanfaatkan untuk mengurangi tangkapan penyusut laut pada jaring insang pantai, dengan cara mengatkan sejenak lampu (light stick) pada jaring tersebut.

Sumber: <http://www.uncc.edu/>

Oleh sebab itu, sudah menjadi kewajiban setiap pemilik kapal dan atau rakoda dan atau anak buah kapal untuk melakukan penanganan yang baik terhadap hasil tangkapan sampingan (bycatch) dengan tujuan:

- meningkatkan peluang hidup bycatch yang dipulihkan kembali ke ekosistem;
- menjaga kelestarian dan keanekaragaman hayati dan sumberdaya perikanan serta ekosistem laut;
- membebaskan cara positif bagi perikanan tuna yang menerapkan praktik-praktik tindakan mitigasi

Bycatch dan ERS terangkap dalam aktivitas penangkapan ikan oleh nelayan secara tidak sengaja (incidental catch). Dalam leaflet ini, ERS dikumpulkan sebagai bycatch.

Table 5. The List of Whole Species Observed

Country/Fishing Entity	Calendar Year	Fishery		CCSBT Statistical Area	Species (or group)	Observed Captured (number)	Observed Capture Rate	Observed Mortalities (number)	Observed Mortality Rate	Observed Live Releases	Estimated total number of mortalities
		Gear Code	Fleet Code								
ID	2013	LL	IDD	1	BAR	26	0.1782	26	0.1782	0	26
ID	2013	LL	IDD	1	BSH	4	0.0274	4	0.0274	0	4
ID	2013	LL	IDD	1	BWL	45	0.3084	45	0.3084	0	45
ID	2013	LL	IDD	1	CDF	14	0.0960	14	0.0960	0	14
ID	2013	LL	IDD	1	CSK	27	0.1851	27	0.1851	0	27
ID	2013	LL	IDD	1	DAS	337	2.3099	332	2.2757	5	332
ID	2013	LL	IDD	1	DAV	181	1.2407	133	0.9116	48	133
ID	2013	LL	IDD	1	EIL	2	0.0137	2	0.0137	0	2
ID	2013	LL	IDD	1	HAR	16	0.1097	16	0.1097	0	16
ID	2013	LL	IDD	1	LEC	124	0.8499	124	0.8499	0	124
ID	2013	LL	IDD	1	LKV	4	0.0274	3	0.0206	1	3
ID	2013	LL	IDD	1	MON	18	0.1234	18	0.1234	0	18
ID	2013	LL	IDD	1	MOX	9	0.0617	3	0.0206	6	3
ID	2013	LL	IDD	1	MSK	1	0.0069	1	0.0069	0	1
ID	2013	LL	IDD	1	MSP	6	0.0411	6	0.0411	0	6
ID	2013	LL	IDD	1	NGA	984	6.7448	981	6.7242	3	981
ID	2013	LL	IDD	1	OCS	3	0.0206	3	0.0206	0	3
ID	2013	LL	IDD	1	OHR	1	0.0069	1	0.0069	0	1
ID	2013	LL	IDD	1	OIL	8	0.0548	8	0.0548	0	8
ID	2013	LL	IDD	1	SBF	25	0.1714	25	0.1714	0	25
ID	2013	LL	IDD	1	SPY	1	0.0069	1	0.0069	0	1
ID	2013	LL	IDD	1	TCR	76	0.5209	76	0.5209	0	76
ID	2013	LL	IDD	1	TIG	1	0.0069	1	0.0069	0	1
ID	2013	LL	IDD	1	TRF	2	0.0137	2	0.0137	0	2
ID	2013	LL	IDD	1	TSP	10	0.0685	10	0.0685	0	10
ID	2013	LL	IDD	1	TST	10	0.0685	10	0.0685	0	10
ID	2013	LL	IDD	1	TTX	19	0.1302	3	0.0206	16	3
ID	2013	LL	IDD	1	WAH	16	0.1097	16	0.1097	0	16
ID	2014	LL	IDD	1	BAR	2	0.0369	2	0.0369	0	2
ID	2014	LL	IDD	1	BSH	2	0.0369	2	0.0369	0	2
ID	2014	LL	IDD	1	BWL	24	0.4432	24	0.4432	0	24
ID	2014	LL	IDD	1	CCB	1	0.0185	1	0.0185	0	1
ID	2014	LL	IDD	1	CDF	8	0.1477	8	0.1477	0	8

ID	2014	LL	IDD	1	CSK	10	0.1847	10	0.1847	0	10
ID	2014	LL	IDD	1	DAS	236	4.3578	236	4.3578	0	236
ID	2014	LL	IDD	1	HAR	3	0.0554	3	0.0554	0	3
ID	2014	LL	IDD	1	LEC	36	0.6647	36	0.6647	0	36
ID	2014	LL	IDD	1	LKV	1	0.0185	0	0.0000	1	0
ID	2014	LL	IDD	1	LMA	2	0.0369	2	0.0369	0	2
ID	2014	LL	IDD	1	MON	11	0.2031	11	0.2031	0	11
ID	2014	LL	IDD	1	MOX	1	0.0185	0	0.0000	1	0
ID	2014	LL	IDD	1	NGA	152	2.8067	152	2.8067	0	152
ID	2014	LL	IDD	1	OIL	46	0.8494	46	0.8494	0	46
ID	2014	LL	IDD	1	PSK	17	0.3139	17	0.3139	0	17
ID	2014	LL	IDD	1	RME	1	0.0185	1	0.0185	0	1
ID	2014	LL	IDD	1	SBF	12	0.2216	12	0.2216	0	12
ID	2014	LL	IDD	1	TCR	19	0.3508	19	0.3508	0	19
ID	2014	LL	IDD	1	TST	22	0.4062	22	0.4062	0	22
ID	2014	LL	IDD	1	WAH	12	0.2216	12	0.2216	0	12

Name of Species

Code	Indonesia	English	Latin
B1	Burung camar		
BAR	Alu alu	Baracuda	Sphyraena spp
BTS		Bigeye Thresher shark	
BUK	Ikan bawal astro	Butterfly king fish	
BWL	Bawal hitam samudera	Pomfret	Bramidae
CCP	Hiu Teteri (Lombok)	Sandbar Shark	Carcharinus plumbeus
CHG	Belo	Gizzard shad	Anodontostoma chacunda
CSK	Hiu bojor	Crocodile shark	Pseudocarchariidae / Pseudocarcharias kamoharai Pk
OHR		Other Hair tail fish	
OIL	Ikan Setan	Oilfish	Ruvettus pretiosus
OTHEX		Eksport Ikan lain (Other fish)	
OTHJ	Ikan setan jangki		
OTHR		Other fish nei	
RME	Pari Manta	Devil Ray	Mobula eregoodootenkee
RMJ	Pari plampangan	Manta ray, Japanese devil	Mobula japanica
RRU	Sunglir	Rainbow runner	Elegatis bipinnulata
RSK	Hiu kejen	Whaler sharks	Carcharhinidae
RYH	Pari burung	Banded eagle ray	Aetomylaeus nichofii
SAO	Tongkol kenyar		Sarda Orientalis
SFA	Layaran	Sailfish	Istiophorus platypterus
SKH	Sharks nei		
SKJ	Cakalang	Skipjack tuna	Katsuwonus pelamis
SPL	Hiu kepala martil	Hammerhead sharks	Sphyrna lewini Sl
SPM	Hiu kepala martil	Hammerhead sharks	Sphyrna mokorran Sn
SPY	Hiu kepala martil	Hammerhead sharks	Sphyrnidae
SPZ	Hiu kepala martil	Hammerhead sharks	Sphyrna zygaena Sz
SSD	Cucut Botol	Shortnose spurdog	Squalus megalops
SSH	Cucut Lanjaman	Silky Shark	Carcharinus falciformis
SSP	Marlin paruh pendek	Shortbill Spearfish	Tetrapturus angustirostris
SWO	Ikan Pedang	Swordfish	Xiphias gladius
TCR	Bawal lonjong	Pomfret	
THR	Thresher sharks nei		
TIG	Hiu macan	Tiger shark	Galeocerdo cuvier Gc
TRF	Layur merah	Tapper tail ribbon fish	
TRT			
TSK	Hiu tikus / Hiu ekor panjang	Thresher sharks	Alopiidae
TSP	Hiu tikus / Hiu ekor panjang	Thresher sharks	Alopias pelagicus Ap
TSS	Hiu tikus / Hiu ekor panjang	Thresher sharks	Alopias superciliosus As
TST	Bawal bulat	Sickle pomfret	
TTH	Penyu sisik	Hawksbill turtle	Eretmochelys imbricata
TTL	Penyu tempayan	Loggerhead turtle	Caretta caretta
TTX	Kura-kura / Penyu	Marine turtles nei	Testudinata
TUG	Penyu hijau	Green turtle	Chelonia mydas
UNK	Unknown		
WAH	tenggiri	wahoo	
YFT	Madidihang	Yellowfin	Thunnus albacares

ALB	Albakora	Albacore	Thunnus allalunga
B1	Burung camar		
B2	Burung albatros Putih		
B3	Burung Albatros hitam		
BAR	Alu alu	Baracuda	Sphyraena spp
BET	Matabesar	Bigeye	Thunus obessus
BIL	Ikan Berparuh	Billfish	
BLM	Marlin hitam	Black Marlin	Makaira indica
BLO	Belo		
BLS		Black Shark	
BLZ	Marlin biru	Blue Marlin	Makaira mazara
BRZ	Bawal Kasper	Pomfret	Brama sp
BSH	Cucut selendang biru	Blue shark	Prionace glauca Pc
BTS		Bigeye Thresher shark	
BUK	Ikan bawal astro	Butterfly king fish	
BUM			
BWL	Bawal hitam samudera	Pomfret	Bramidae
CCB	Cucut lanjaman	Spinner shark	Carcharhinus brepinna
CCE	Hiu buas	Bull shark	Carcharhinus falciformes
CCL	Merak Bulu (Lombok)	Common Blacktip Shark	Carcharhinus limbatus
CCP	Hiu Teteri (Lombok)	Sandbar Shark	Carcharinus plumbeus
CDF	Tompek, Lamadang	Common dolphinfish	Coryphaena hippurus
CHG	Belo	Gizzard shad	Anodontostoma chacunda
CMI	Cumi Cumi	Squid	Loligo sp
CSK	Hiu bojor	Crocodile shark	Pseudocarchariidae / Pseudocarcharias kamoharai Pk
DAS	Pari lumpur lainnya	Pelagic stingray	Dasyatis violacea Ds
DAV	Pari lumpur	Pelagic stingray	Dasyatis violacea Dv
DKK	Penyu belimbing	Leatherback turtle	Dermochelys coricea
DOL	Lumba-lumba	Dolphin	
EIL	Bawal ekor perak	Brilliant pomfret	
FAL	Hiu lonjor (Lombok)	Silky Shark	Carcharinus falciformes
FBT	Penyu pipih		
FRI	Tongkol	Frigate Tuna	Auxis thazard
HAR	Layur putih	Long nose chimaeras	Harriotta spp
LEC	Ikan setan coklat abu-abu	Escolar	
LKV	Penyu Lekang		
LMR	Lemuru		Sardinella sp
LOT	Tongkol abu abu	Longtail tuna	Thunnus tonggol
LYG	LAYANG		
MARL	Marlins		
MIL	Bandeng	Milk Fish	Chanos chanos
MLS	Marlin stripe	Stripped Marlin	Tetrapturus audax
MON	Ikan merah totol-totol	Moon fish	Lampris guttatus
MOX	Mambo	Ocean Sunfish	Mola mola
MSK	Hiu tenggiri / Hoi moro	Mako sharks	Lamnidae
MSO	Hiu tenggiri / Hoi moro	Mako sharks	Isurus oxyrhynchus Is
MSP	Hiu tenggiri / Hoi moro	Mako sharks	Isurus paucus Ip
NGA	Naga	Lancet Fish	Alepisaurus sp
OCS	Cucut koboy	Oceanic whitetip shark	Carcharhinus longimanus Clo
OHR		Other Hair tail fish	
OIL	Ikan Setan	Oilfish	Ruvettus pretiosus

OTHEX		Eksport Ikan lain (Other fish)	
OTHJ	Ikan setan jangki		
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RMJ	Pari plampangan	Manta ray, Japanese devi	Mobula japonica
RRU	Sunglir	Rainbow runner	Elegatis bipunnulata
RSK	Hiu kejen	Whaler sharks	Carcharhinidae
RUS	Layang	Scad mackarel	Decapterus russeli
RYH	Pari burung	Banded eagle ray	Aetomylaeus nichofii
SAO	Tongkol kenyar		Sarda Orientalis
SBF	Tuna sirip biru Selatan	Southern bluefin tuna	Thunnus maccoyii
SFA	Layaran	Sailfish	Istiophorus platypterus
SHK	Shark		
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SPM	Hiu kepala martil	Hammerhead sharks	Sphyrna mokorran Sn
SPY	Hiu kepala martil	Hammerhead sharks	Sphyrnidae
SPZ	Hiu kepala martil	Hammerhead sharks	Sphyrna zygaena Sz
SSD	Cucut Botol	Shortnose spurdog	Squalus megalops
SSH	Cucut Lanjaman	Silky Shark	Carcharinus falciformis
SSP	Marlin paruh pendek	Shortbill Spearfish	Tetrapturus angustirostris
SWO	Ikan Pedang	Swordfish	Xiphias gladius
TCR	Bawal lonjong	Pomfret	
THR	Thresher sharks nei		
TIG	Hiu macan	Tiger shark	Galeocerdo cuvier Gc
TRF	Layur merah	Tapper tail ribbon fish	
TRT			
TSK	Hiu tikus / Hiu ekor panjang	Thresher sharks	Alopiidae
TSP	Hiu tikus / Hiu ekor panjang	Thresher sharks	Alopias pelagicus Ap
TSS	Hiu tikus / Hiu ekor panjang	Thresher sharks	Alopias superciliosus As
TST	Bawal bulat	Sickle pomfret	
TTH	Penyu sisik	Hawksbill turtle	Eretmochelys imbricata
TTL	Penyu tempayan	Loggerhead turtle	Caretta caretta
TTX	Kura-kura / Penyu	Marine turtles nei	Testudinata
TUG	Penyu hijau	Green turtle	Chelonia mydas
UNK	Unknown		
WAH	tenggiri	wahoo	
YFT	Madidihang	Yellowfin	Thunnus albacares
ALB	Albakora	Albacore	Thunnus allalunga
B1	Burung camar		
B2	Burung albatros Putih		
B3	Burung Albatros hitam		
BAR	Alu alu	Baracuda	Sphyrna spp
BET	Matabesar	Bigeye	Thunus obessus
BIL	Ikan Berparuh	Billfish	
BLM	Marlin hitam	Black Marlin	Makaira indica
BLO	Belo		
BLS		Black Shark	
BLZ	Marlin biru	Blue Marlin	Makaira mazara
BRZ	Bawal Kasper	Pomfret	Brama sp

BSH	Cucut selendang biru	Blue shark	Prionace glauca Pc
BTS		Bigeye Thresher shark	
BUK	Ikan bawal astro	Butterfly king fish	
BUM			
BWL	Bawal hitam samudera	Pomfret	Bramidae
CCB	Cucut lanjaman	Spinner shark	Carcharhinus brepinna
CCE	Hiu buas	Bull shark	Carcharhinus falciformes
CCL	Merak Bulu (Lombok)	Common Blacktip Shark	Carcharhinus limbatus
CCP	Hiu Teteri (Lombok)	Sandbar Shark	Carcharinus plumbeus
CDF	Tompek, Lamadang	Common dolphinfish	Coryphaena hippurus
CHG	Belo	Gizzard shad	Anodontostoma chacunda
CMI	Cumi Cumi	Squid	Loligo sp
CSK	Hiu bojor	Crocodile shark	Pseudocarchariidae / Pseudocarcharias kamoharai Pk
DAS	Pari lumpur lainnya	Pelagic stingray	Dasyatis violacea Ds
DAV	Pari lumpur	Pelagic stingray	Dasyatis violacea Dv
DKK	Penyu belimbing	Leatherback turtle	Dermodochelys coricea
DOL	Lumba-lumba	Dolphin	
EIL	Bawal ekor perak	Brilliant pomfret	
FAL	Hiu lonjor (Lombok)	Silky Shark	Carcharinus falciformes
FBT	Penyu pipih		
FRI	Tongkol	Frigate Tuna	Auxis thazard
HAR	Layur putih	Long nose chimaeras	Harriotta spp
LEC	Ikan setan coklat abu-abu	Escolar	
LKV	Penyu Lekang		
LMR	Lemuru		Sardinella sp
LOT	Tongkol abu abu	Longtail tuna	Thunnus tonggol
LYG	LAYANG		
MARL	Marlins		
MIL	Bandeng	Milk Fish	Chanos chanos
MLS	Marlin stripe	Stripped Marlin	Tetrapturus audax
MON	Ikan merah totol-totol	Moon fish	Lampris guttatus
MOX	Mambo	Ocean Sunfish	Mola mola
MSK	Hiu tenggiri / Hoi moro	Mako sharks	Lamnidae
MSO	Hiu tenggiri / Hoi moro	Mako sharks	Isurus oxyrinchus ls
MSP	Hiu tenggiri / Hoi moro	Mako sharks	Isurus paucus lp
NGA	Naga	Lancet Fish	Alepisaurus sp
OCS	Cucut koboy	Oceanic whitetip shark	Carcharhinus longimanus Clo
OHR		Other Hair tail fish	
OIL	Ikan Setan	Oilfish	Ruvettus pretiosus
OTHEX		Eksport Ikan lain (Other fish)	
OTHJ	Ikan setan jangki		
OTHR		Other fish nei	
RME	Pari Manta	Devil Ray	Mobula eregoodootenkee
RMJ	Pari plampangan	Manta ray, Japanese devil	Mobula japonica
RRU	Sunglir	Rainbow runner	Elegatis bipinnulata
RSK	Hiu kejen	Whaler sharks	Carcharhinidae
RUS	Layang	Scad mackarel	Decapterus russeli
RYH	Pari burung	Banded eagle ray	Aetomylaeus nichofii
SAO	Tongkol kenyar		Sarda Orientalis
SBF	Tuna sirip biru Selatan	Southern bluefin tuna	Thunnus maccoyii
SFA	Layaran	Sailfish	Istiophorus platypterus
SHK	Shark		

SKH	Sharks nei		
SKJ	Cakalang	Skipjack tuna	Katsuwonus pelamis
SPL	Hiu kepala martil	Hammerhead sharks	Sphyrna lewini Sl
SPM	Hiu kepala martil	Hammerhead sharks	Sphyrna mokorran Sn
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