EXISTING DATA COLLECTION SYSTEM

Workshop on Harvest Strategy Implementation for Tuna Fisheries
In FMA 713, 714 and 715

Bogor, 21-23 November 2018

Fayakun Satria,Bayu Sedane merta, Lilis sadiyah, Mahiswara,Anung Widodo.

1

Current Systems & Ongoing Improvement

On going improvement

Temporary terminated since 2017

Data Sharing System (DSS)

- SILOPI (Logbook), e logbook 2018 - DGCF
- VMS (DG Surveillance)
- PIPP (Catch Landing Data) - DGCF
- Catch Certification (EU Standard)
- SIPEPI (Permit Data For Vessels >30GT)
- SIMKADA (Permit Data For Vessels <30GT
- LKU & LKP (Fishing Report for Tax purpose)
- SIPALKA (Fishing vessel registration)

One Data (2017) (Total Catch) Pusdatin

National Observer DCGF

Monitoring System

Continuing improvement depend on budget, capacity and policy driven

CDS (SBT) DGCF

R-VIA (DGCF)

Provincial Data Collection ??

Scientific Data

(e-BRPL (Incl Ngos (Ifish) and Gov) , **Port Sampling wpea** , Scientific Observer, Stock Assessment, research vessel)

Map source PIPP DJPT MMAF

WCPFC

IOTC

CCSBT

538 Fishing port

143 prior 2017

90 after 2017

> 37 Type of Fishery

Motorized boat

Total 623.970

Motorized boat

617.730 < 30 GT

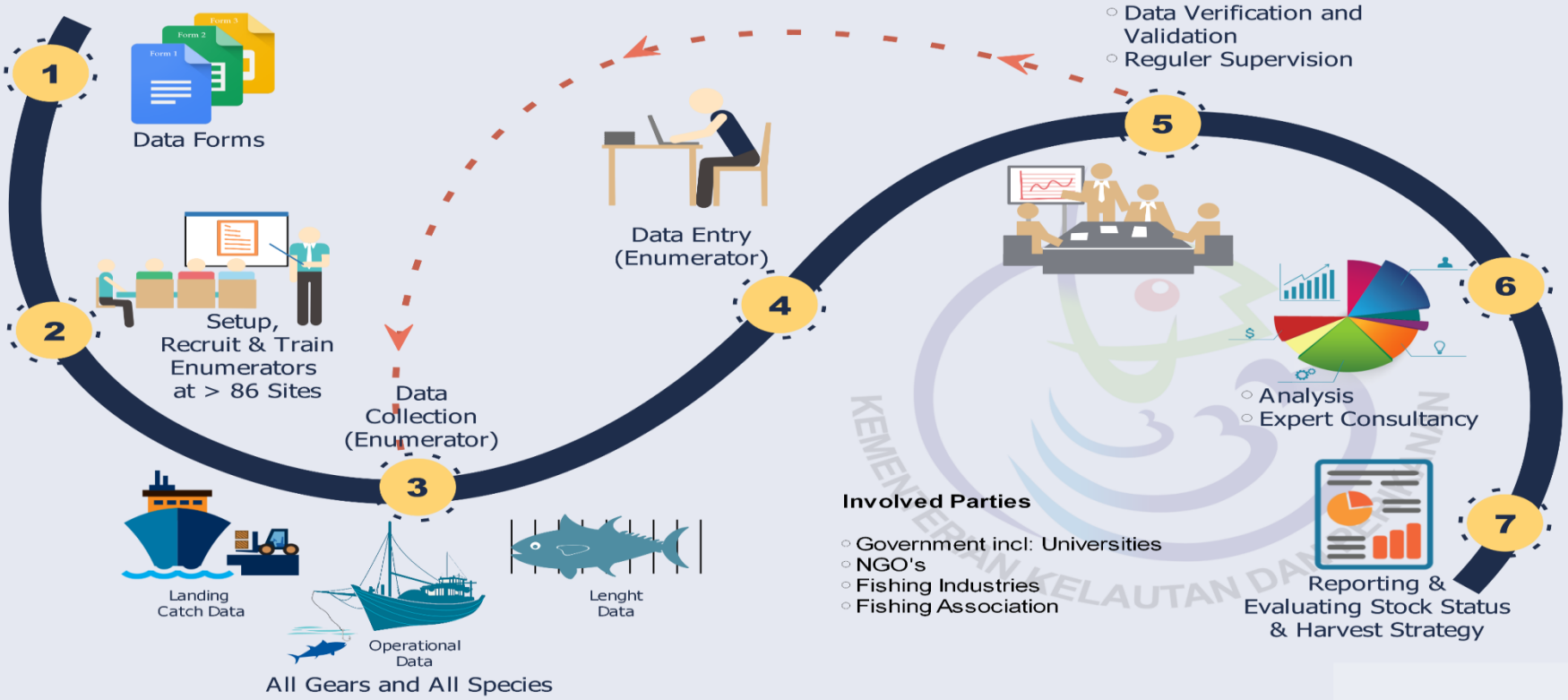
For Tuna Fishery > 8 fishery

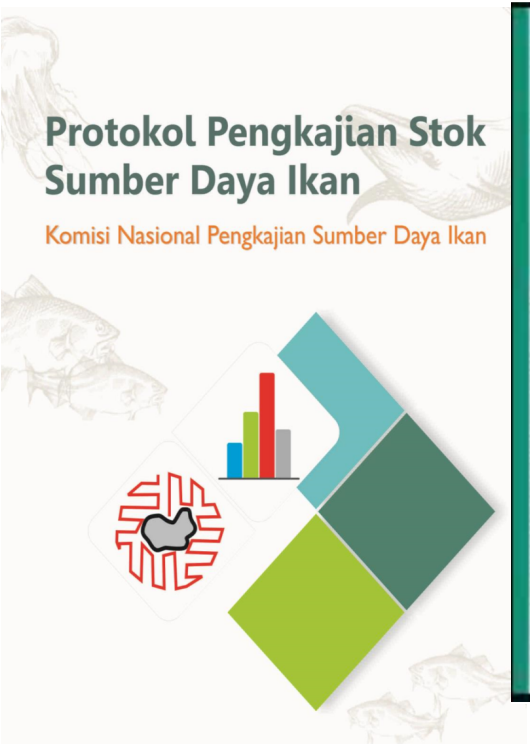
HL (Surface HL and Deep HL) ,

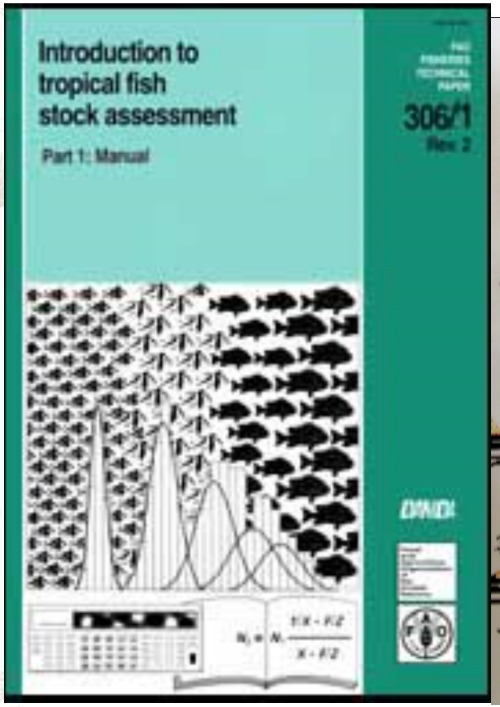
PL, LL, PS, GN, TL, Kite Line, Ring Net

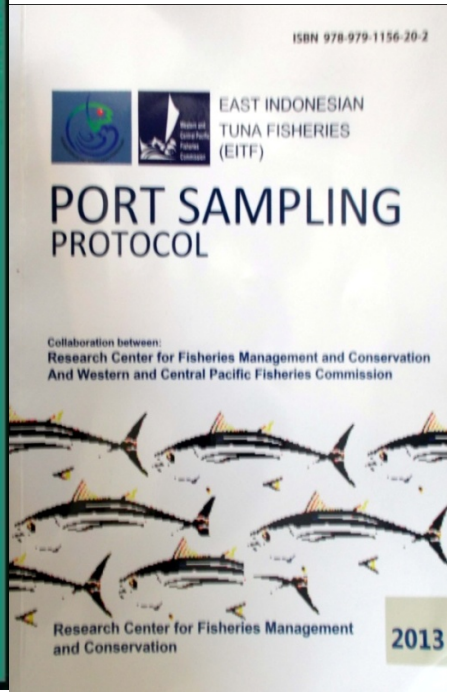
Small Scale tuna Fishery

Establishment of e-BRPL Collecting Data System
For Stock Assessment and Harvest Strategy
Commenced in 2017









SOP
PORT SAMPLING
PELAGIS KECIL
DEMERSAL
UDANG
PELAGIS BESAR

BRPL
2018

2

Data Requirement

Type of data collection programs

Landings Data

- **Fishing Port data collection program**
- **Port-based Monitoring Program (Enumeration)**

- Total Catch landed
- Total active vessels, # trips
- Catch by species – by gear
- Size of fish
- Effort data
  - # hooks for LL
  - # poles for PL
  - # fishing days

- Fishing ground
  - FMA
  - Grid
- Vessel characteristics:
  - Nama kapal
  - GT
- FAD use info

Operational catch and effort data

- **Logbook program**
- **Observer program**

- Total Catch per trip
- # settings
- Catch by species – per gear- per set
- Size of fish
- Effort data
  - # hooks for LL
  - # poles for PL
  - # fishing days

- Fishing ground
  - Lat and Lon
- Vessel characteristics:
  - Nama kapal
  - GT
- FAD use info
- Fishing strategies (incl.bait, setting time, # lights used)
- Environmental data
- Bycatch and discards

Port-based Monitoring Program

- **Catch & Effort Data** (**<u>for each landing</u>**)
  - Landing ID, Vessel Name, Sampling Date (yyyy-mm-dd), Landing Site, Fishing Ground (1^0 grid), Fishing Gear, No. of Fishing Days, No. of Hooks, Catch (in kg per species), Total Catch (in kg), Bait Species, FAD Utilization
- **Size Data**
  - Landing ID, Species Name, Length, Weight

LandingID	SamplingDate			Landing Site	Grid	FishingGear	No.of fshing days	No.of hooks	Catch							Total Catch (may include bycatch)	Bait species	FAD (Y/N)
	Year	Month	Day						YFT (No. fsh)	YFT (kg)	SKJ (No. fsh)	SKJ (kg)	BET (No. fsh)	BET (kg)	Others			
KDI-20100101-01	2010	2	1	Kendari	P35	PL	10		100	1000	100	10000	100	1000	8000	20000	Teri	Y
KDI-20100101-01	2010	2	1	Kendari	P35	PL	15		150	15000	150	15000	150	15000	5000	50000	Teri	N
KDI-20100101-01	2010	2	1	Kendari	P36	PL	20		180	18000	180	18000	180	18000	6000	60000	Teri	Y
KDI-20100101-01	2010	2	1	Kendari	P36	PL	12		200	11060	200	11060	200	11060	1820	35000	Teri	Y
KDI-20100101-01	2010	2	1	Kendari	P35	PL	10		300	10000	300	20000	300	10000	10000	50000	Teri	N
KDI-20100101-01	2010	2	1	Kendari	P36	PL	8		321	8000	321	15000	321	10000	2000	35000	Sardine	Y
KDI-20100101-01	2010	2	1	Kendari	P35	PL	13		366	7000	366	17000	366	6700	4300	35000	Sardine	Y
KDI-20100101-01	2010	2	1	Kendari	P36	PL	10		411	5000	411	10000	411	6000	9000	30000	Sardine	Y
KDI-20100101-01	2010	2	1	Kendari	P35	PL	12		456	5000	456	25000	456	5000	5000	40000	Sardine	N

LandingID	SamplingDate	area_name	FishingGearName	SpeciesName	Length
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	48
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	45.7
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	46
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	47
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	48
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	43
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	52
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	50
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	48

Logbook Data

- **Catch & Effort Data <u>(for each setting)</u>**
  - Trip ID, Vessel Name, GT, Departure Date, Arrival Date, Fishing Gear, No. of Fishing Days, Setting ID, Setting Date, Fishing Ground (Lat & Lon), No. of Hooks, Hooks between FLoats, Catch (in no. and kg, per species)
- **Size Data**
  - Setting ID, Species Name, Length, Weight

Tabel 2. CATCH AND EFFORT DATA SHEET – Logbook (Contoh)

Trip Id	Nama Kapal	GT	Tanggal berangkat	Tanggal Kedatangan	Jenis Alat Tangkap	Jumlah hari penangkapan	Setting Id	Tanggal	Posisi Penangkapan		Jumlah mata pancing	Jumlah mata pancing antar pelampung	BET		YFT		SKJ	
									Lintang (o)	Bujur (o)			Kg	Ekor	Kg	Ekor	Kg	Ekor
LL01	KM Bima	35	21/2/2015	21/3/2015	LL	22	LL01-01	25/2/2015	-2,56	125,45	1450	15	100	5	200	8	300	15
LL01	KM Bima	35	21/2/2015	21/3/2015	LL	22	LL01-02	26/2/2015	-2,15	126,5	1450	15	98	4	250	10	260	14
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst
LL02	KM Satria	45	28/3/2015	05/02/2015	LL	28	LL02-01	04/02/2015	2,54	130,45	1500	18	200	4	200	6	300	20
LL02	KM Satria	45	28/3/2015	05/02/2015	LL	28	LL02-02	04/03/2015	2,34	131,45	1500	18	230	5	180	4	310	18
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst

Catatan:

Trip Id diisi dengan kode yang unik untuk setiap trip yang berbeda.

Setting Id diisi dengan kode dan diakhiri dengan no urut setting.

Jumlah mata pancing dan jumlah pancing antar pelampung khusus untuk longline

LandingID	SamplingDate	area_name	FishingGearName	SpeciesName	Length
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	48
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	45.7
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	46
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	47
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	48
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	43
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	52
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	50
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	48

Observer Data

- **Catch & Effort Data** (for each setting)
  - Trip ID, Vessel Name, GT, Departure Date, Arrival Date, Fishing Gear, No. of Fishing Days, Setting ID, Setting Date, Setting Time, Fishing Ground (Lat & Lon), No. of Hooks, Hooks between FLoats, Catch (in no. and kg, per species), Bait Species
- **Size Data**
  - Setting ID, Species Name, Length, Weight

Tabel 3. CATCH AND EFFORT DATA SHEET – Observer (contoh)

Nama Kapal	GT	Tanggal berangkat	Tanggal Kedatangan	Jenis Alat Tangkap	Jumlah hari penangkapan	Setting Id	Tanggal	Jam mulai setting	Posisi Penangkapan		Jumlah mata pancing	Jumlah mata pancing antar pelampung	BET		YFT		SKJ		Jenis Umpan
									Lintang (o)	Bujur (o)			Kg	Ekor	Kg	Ekor	Kg	Ekor	
KM Bima	35	21/2/2015	21/3/2015	LL	22	LL01-01	25/2/2015	07.00.00	-2,56	125,45	1450	15	100	5	200	8	300	15	Lemuru
KM Bima	35	21/2/2015	21/3/2015	LL	22	LL01-02	26/2/2015	21.25.00	-2,15	126,5	1450	15	98	4	250	10	260	14	Lemuru
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst
KM Satria	45	28/3/2015	05/02/2015	LL	28	LL02-01	04/02/2015	10.00.00	2,54	130,45	1500	18	200	4	200	6	300	20	Layang
KM Satria	45	28/3/2015	05/02/2015	LL	28	LL02-02	04/03/2015	08.00.00	2,34	131,45	1500	18	230	5	180	4	310	18	Layang
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst	dst

Catatan:

Trip Id diisi dengan kode yang unik untuk setiap trip yang berbeda.

Setting Id diisi dengan kode dan diakhiri dengan no urut setting.

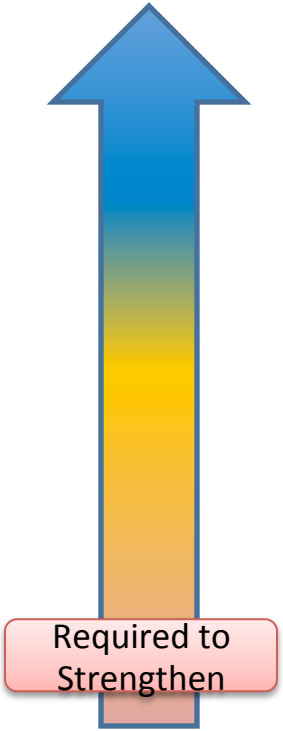
Jumlah mata pancing dan jumlah pancing antar pelampung khusus untuk longline

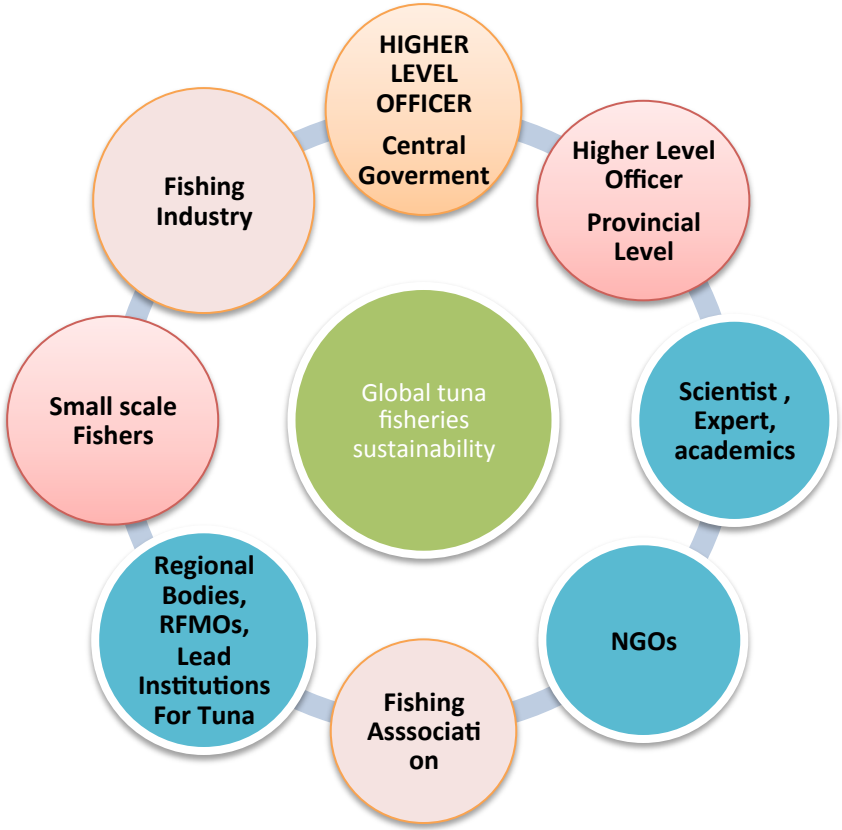
LandingID	SamplingDate	area_name	FishingGearName	SpeciesName	Length
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	48
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	45.7
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	46
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	47
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	48
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	43
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	52
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	50
KDI-20100101-01	1/1/2010 0:00	Kendari	Pole and Line	Skipjack Tuna	48

3

MONITORING (DISCUSSION)

Various entity/body related to Indonesia Fisheries (<u>All Are Related</u>)





- ✓ **COLLABORATION**
- ✓ **<u>MONITORING</u>**

  <u>(DATA</u>

  <u>COLLECTION)</u>
- ✓ **REPORTING**
- ✓ **REGULATING**
- ✓ **ENFORCING**

@fay btc

POTENTIAL INSTUTIONAL FOR SUPPORT ON MONITORING AND HS IMPLEMENTATION

1. ONE DATA PUSDATIN
2. DGCF (PIPP, OBSERVER, LOG BOOK, SIMKADA, SIPEPI, RVIA)
3. CFR (RIMF, RITF)
4. ACIAR – CSIRO
5. WCPFC (WPEA-ITM)
6. MDPI
7. AP2HI
8. SFP
9. ATLI
10. Others

Discussion on: Area, integration, standardization, supervision, budget, Other?

AGREED TIME LINE FOR MONITORING ACTIVITIES

AGREED TIME LINE FOR DATA SUBMISSION

Proposed Date 4 March

Data Submission Due Date

- 31 Jan — CCSBT Monthly Catch Reporting
- 15 Feb — IOTC Record of Active Vessel
- 21 Feb — CCSBT Annual Report ERSWG
- 28 Feb — CCSBT Monthly Catch Reporting
- 4 Mar — WCPFC HS Data Submission

- 31 Mar — CCSBT Monthly Catch Reporting
- 30 Apr — CCSBT Monthly Catch Reporting
- 31 May — CCSBT Monthly Catch Reporting
- 30 Jun — IOTC Catch and Effort
- 30 Jun — CCSBT Monthly Catch Reporting
- 1 Jul — WCPFC Annual Part 2
- 10 Jul — WCPFC Annual Part 1

- 31 Jul — CCSBT Monthly Catch Reporting
- 31 Aug — CCSBT Monthly Catch Reporting
- 30 Sep — CCSBT Monthly Catch Reporting
- 31 Oct — CCSBT Monthly Catch Reporting
- 30 Nov — CCSBT Monthly Catch Reporting
- 31 Dec — CCSBT Monthly Catch Reporting

Thank You !