



The Implementation Of Log Book and Observer Program in Indonesia

By :

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Directorate of Fish Resources Management**

**Sustainable Management of Highly Migratory Fish Stocks in the
West Pacific and East Asian Seas (WPEA SM Project),
REVIEW WORKSHOP, Bogor, Indonesia 21 - 23 January 2019**



outline



1. Fishing Log Book;
2. *Observer on Board.*



1 | Fishing Log Book

1. Law No 45 2009 about fisheries ;
2. Marine and Fisheries Ministerial Degree PER.30/MEN/2012 jo PER.26/MEN/2013 about capture fisheries.
3. Marine and Fisheries Ministerial Degree No.12 2012 about EEZ capture fisheries;
4. CMM RFMO IOTC, Resolution IOTC 15/01, 15/02, 15/08 and Ecological Related Species (ERS). ;
5. Marine and Fisheries Ministerial Degree No 48 2014 about fishing logbook.





FISHING LOGBOOK



- **Daily report** written by captain about fishing activities .
- Logbook is **landing declaration** by captain, or statement about fishing activities conducted and catch landed. .



By gear type



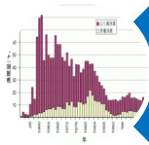
Discard



Fishing Ground by area



Ecological Related Species (ERS)



Fish Target



Data Hook Rate and CPUE

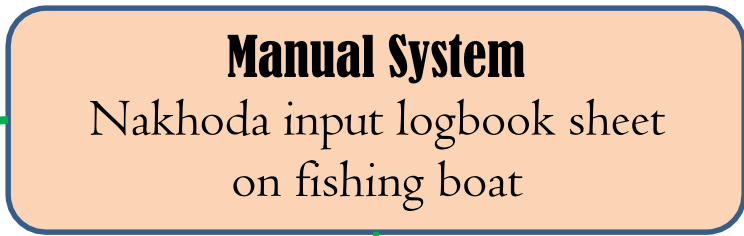


by catch

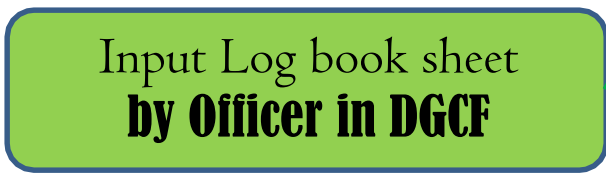


Log Book Mechanism

The completed log book submitted to the Master Harbour / Log Book officer at the Port

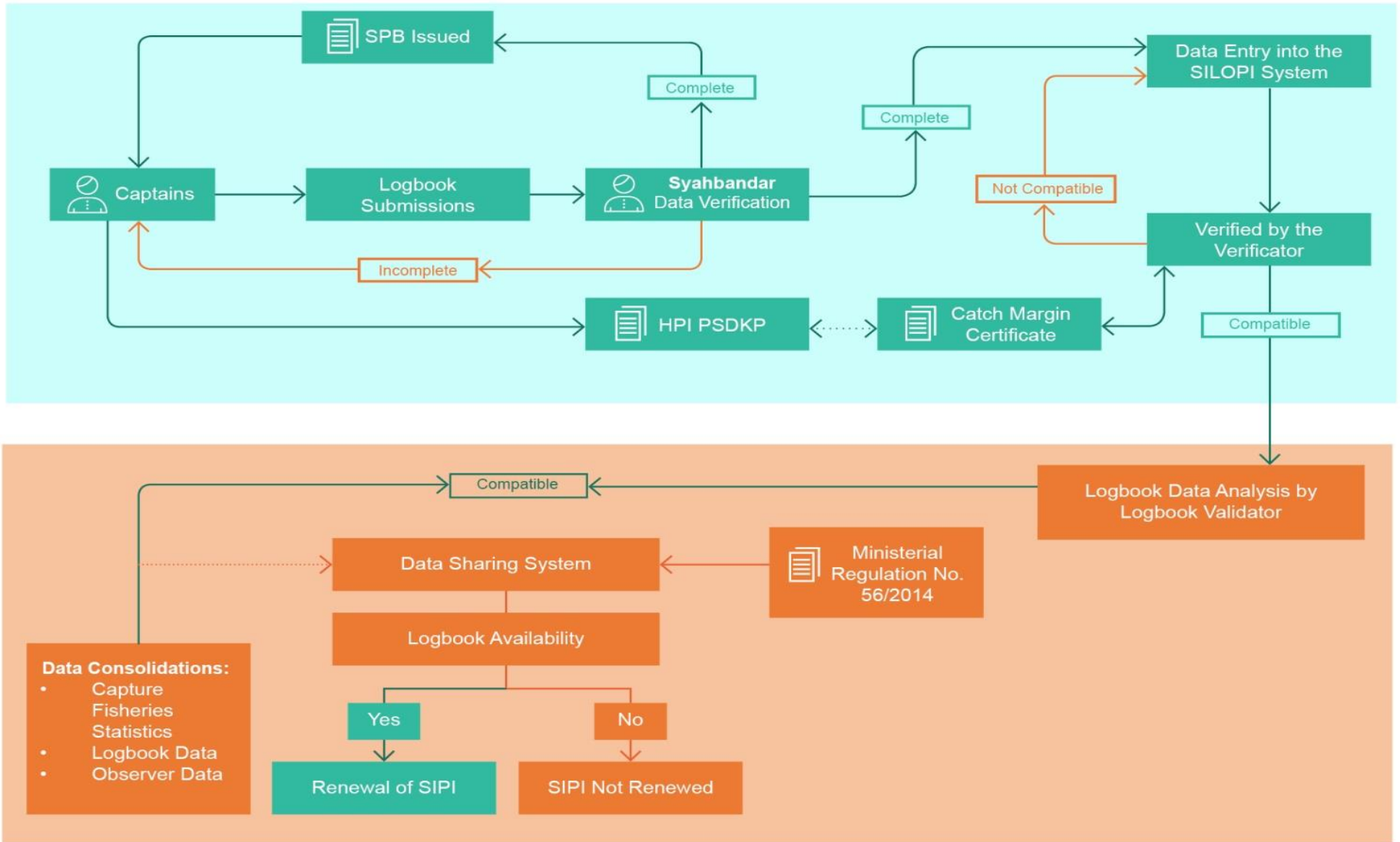


as time goes by until now, the completed log book has been submitted to the master harbour / log book officer to be done



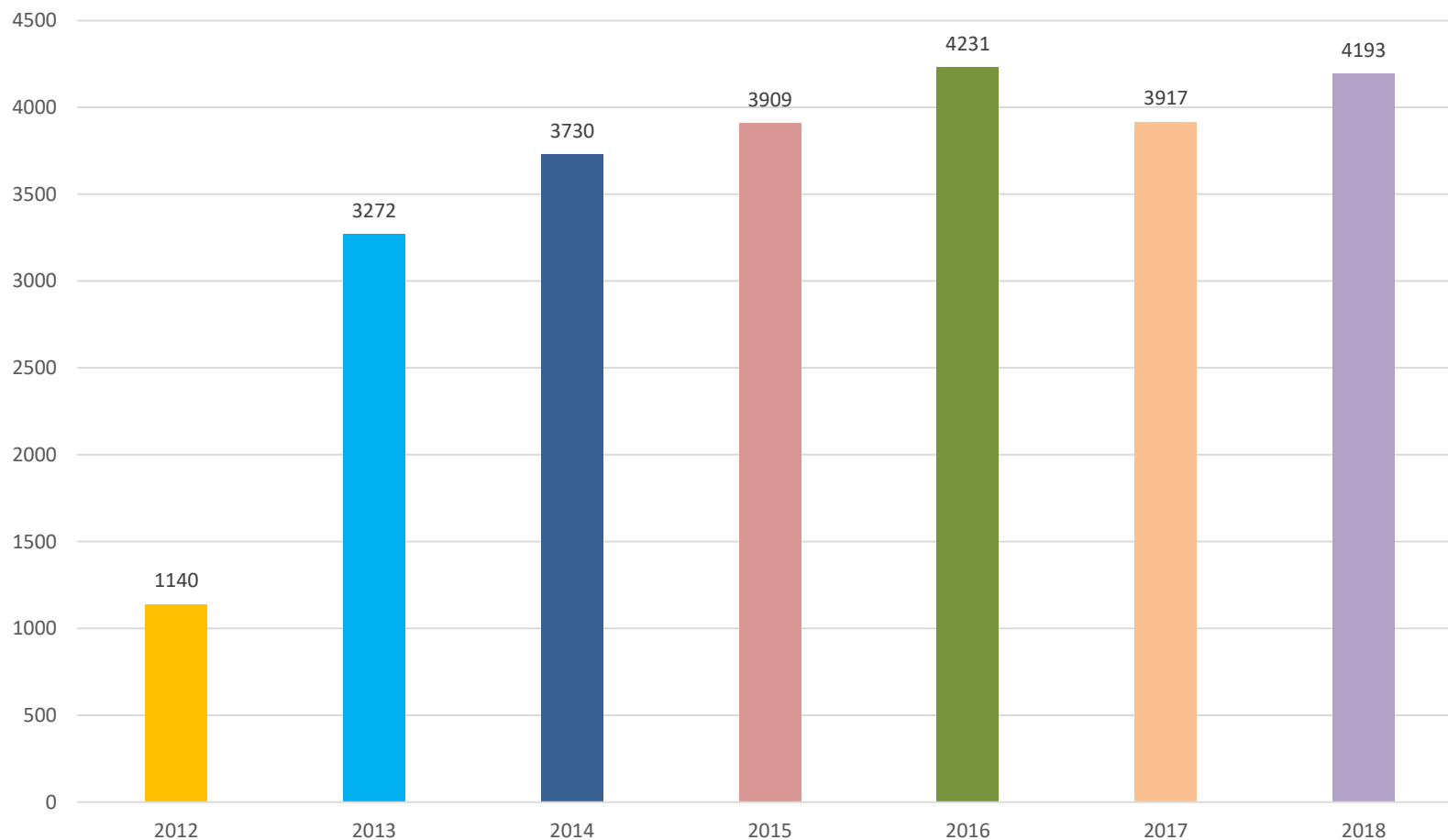


Log Book Mechanism



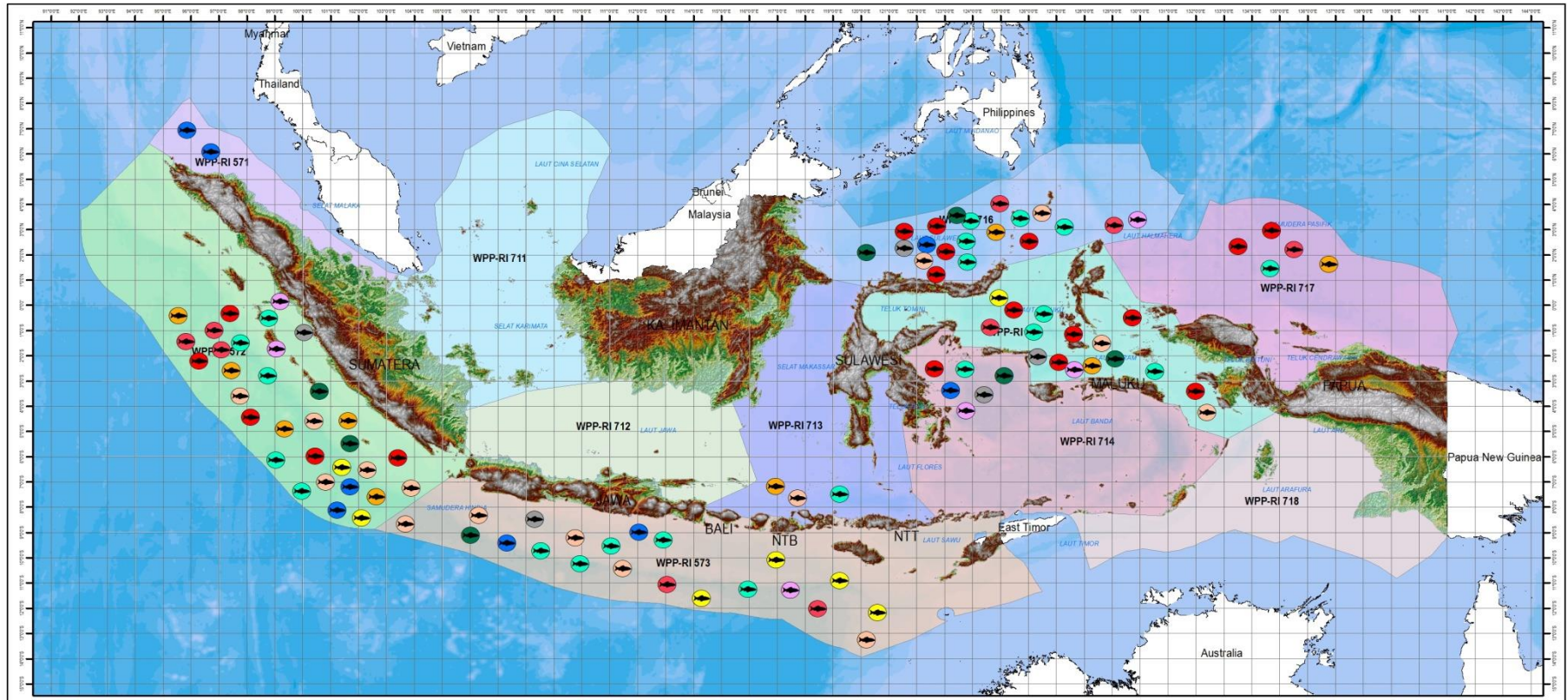


Number of Fishing Vessel to submit Log Book (BY SILOPI 2012-2018)






Distribution of Tuna by Log Book Information 2017




KEMENTERIAN KELAUTAN DAN PERIKANAN
DIREKTORAT PENGELOLAAN SUMBERDAYA IKAN
SUBDIT PEMANTAUAN DAN ANALISIS
PENGELOLAAN SUMBERDAYA IKAN

PETA SEBARAN JENIS IKAN

SKALA 1:15.000.000
 0 200 400 800
 Kilometers

INDEKS


LEGENDA

ADMINISTRASI
 - - - Batas Provinsi
 - - - - Batas Negara

KETINGGIAN (M)


KEDALAMAN (M)


JENIS IKAN

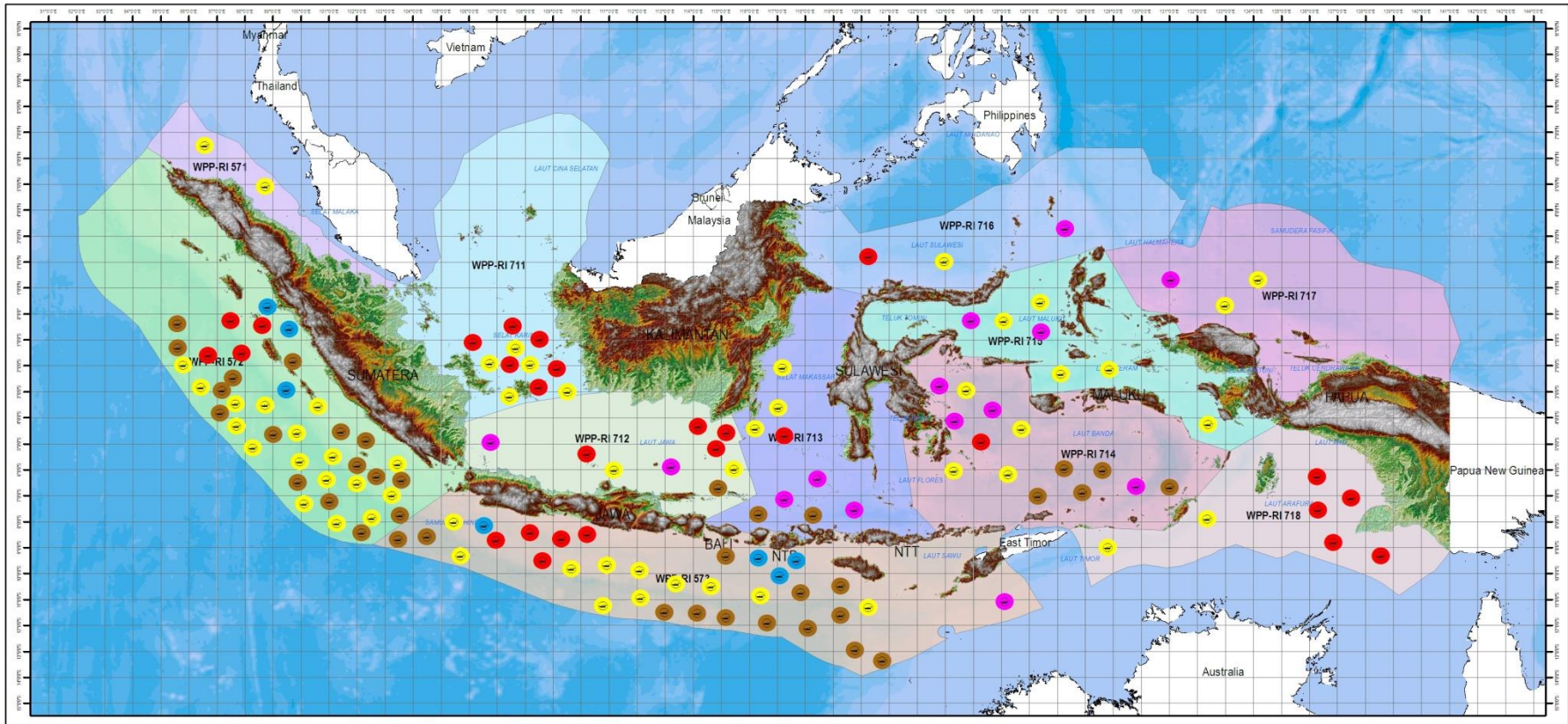

-  Albakora (ALB)
-  Cakalang (SKJ)
-  Madidihang (YFT)
-  Tenggiri (COM)
-  Tongkol Abu-Abu (LOT)
-  Tongkol Banyar (FRI)
-  Tongkol Pisang Balaki (FRI)
-  Tongkol Pisang Cerutu (BLT)
-  Tuna Mata Besar (BET)
-  Tuna Sirip Biru Selatan (SBT)

Proyeksi : Geographic Reference System
 Sistem Grid : Grid Geografi
 Datum Horizontal : Datum WGS - 1984

SUMBER PETA
 1. Peta RBI 1:1.000.000
 2. Peta WPP RI
 3. Data Logbook 2017
 4. Data Gabco
 5. Data SRTM



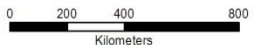
Distribution Of Fishing Gear to Catch Tunas by Log Book Information 2017

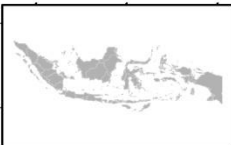
KEMENTERIAN KELAUTAN DAN PERIKANAN
DIREKTORAT PENGELOLAAN SUMBERDAYA IKAN
SUBDIT PEMANTAUAN DAN ANALISIS
PENGELOLAAN SUMBERDAYA IKAN

PETA SEBARAN ALAT TANGKAP

SKALA 1:15,000,000



INDEKS



LEGENDA

ADMINISTRASI
 - - - Batas Provinsi
 - - - - Batas Negara

KETINGGIAN (M)

 0 >4000

KEDALAMAN (M)

 0-500 >6500

JENIS ALAT TANGKAP

-  Gill Net
-  Hand Line
-  Purse Seine
-  Long Line
-  Troll Line

Proyeksi : Geographic Reference System
 Sistem Grid : Grid Geografi
 Datum Horizontal : Datum WGS - 1984

SUMBER PETA

1. Peta RBI 1:1.000.000
2. Peta WPP RI
3. Data Logbook 2017
4. Data Gebo
5. Data SRTM



FISHING LOGBOOK IMPROVEMENT PLANS

1. Application –based validation system using Database Sharing System (DSS).
2. Observer.
3. Develop Fishing Logbook for small-scale fishers .
4. Pilot trial integrated VMS and SILOPI e-logbook .

1. Logbook data = Fish landing data = DATA LKU and LKP.
2. SILOPI improvement
3. Support for logbook implementation DGCF Decree No. 1/PER-DJPT/2016 (*Kapal Penyangga*).
4. Compliance improvement to RFMO .

- Logbook implementation review KP 48/2014 :
1. Logbook has to be submitted when landing.
 2. **Stronger sanction incentive for non-compliance .**
 3. Administrative notification .

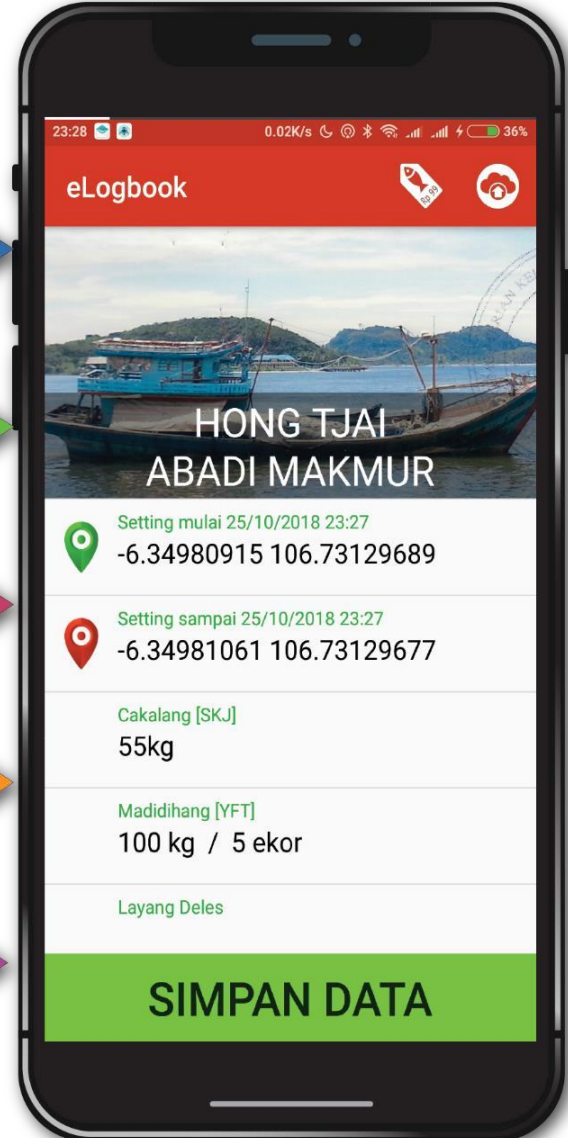




why e-LOG BOOK ???

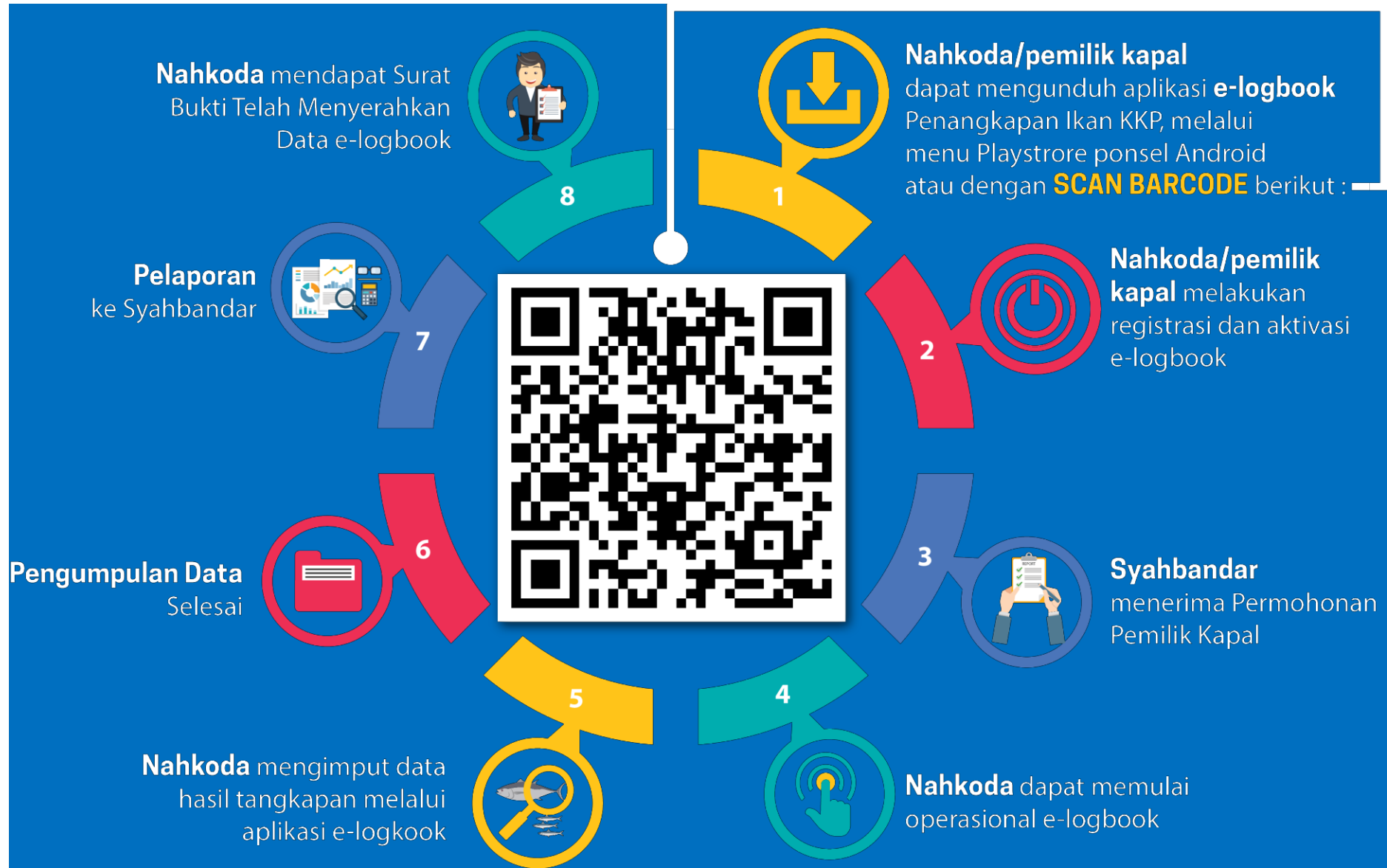


- 
PRAKTIS
 Proses pengumpulan lebih mudah dan efisien (berbasis gadget)
- 
PAPERLESS
 Tidak membutuhkan kertas dalam proses pencatatan data operasi penangkapan ikan
- 
LAPORAN
 Penyampaian laporan data operasi penangkapan ikan tanpa perlu ke kantor Pelabuhan Perikanan/Umum
- 
TERINTEGRASI
 Data langsung terintegrasi dengan Aplikasi SILOPI
- 
Mode Offline
 Dapat diinput secara offline dan dikirim pada saat online



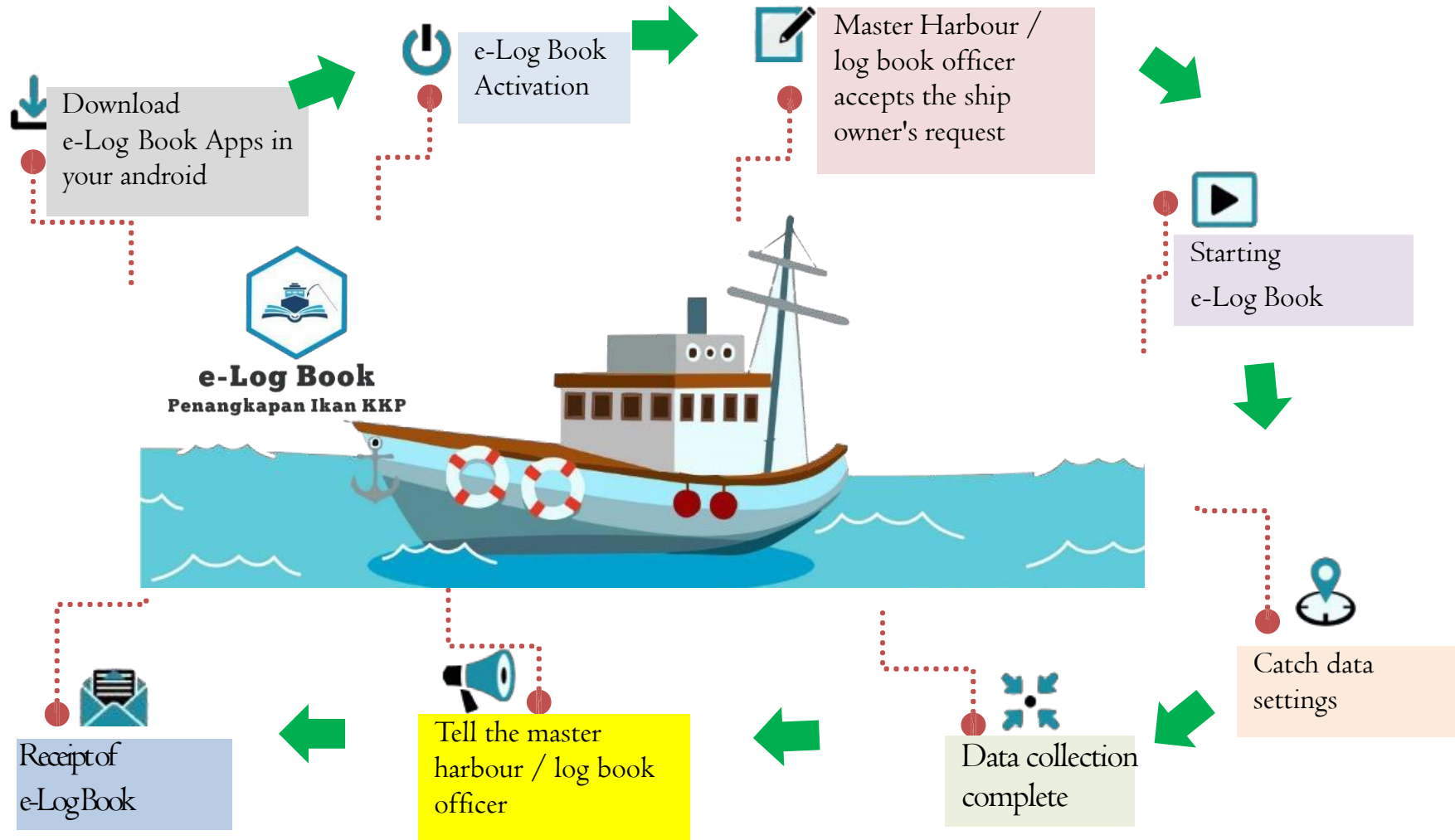


e-Log Book implementations





E-Log Book Mechanism



The e-Log Book application can be downloaded via Playstore (Android) or through the website www.e-logbookdjpt.kkp.go.id. The application must be activated immediately so that it can be used.



E-Log Book Application (by Android) System



1



The captain activates e-Log Book

2



Device synchronization

3



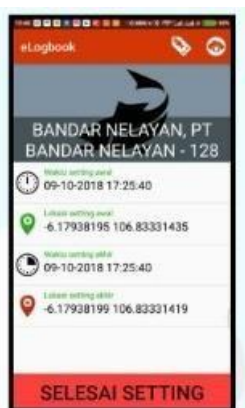
the captain is ready to leave after activation

4



Start setting

5



data collection is complete and ready to be sent

6



Start the next setting

7



Input of catch

8



"Finish Setting" after the first setting process is complete



Vessels that have entered as of 10 January 2019 = **2060** Vessels, with composition (central license: **1327 vessels** and province license: **733 vessels**)

A. MMAF License

The number of vessel with central license in 2018 and 2019 (as of January 10) which activates as many as 1327 vessels, with a composition of 2018 = 1222 vessels and in 2019 = 105 vessels.

The range of GT, including:

- A. 30-50 GT = 665 vessels (2018) and 55 vessels (2019)
- B. 50-100 GT = 166 vessels (2018) and 21 vessels (2019)
- C. > 100 GT = 391 vessels (2018) and 29 vessels (2019)

B. Provincial Government License

The number of Provincial Government License in 2018 and 2019 (as of January 10) which activated 733 vessels, with the composition of 2018 = 537 vessels and 2019 = 196 vessels.

The range of GT, including:

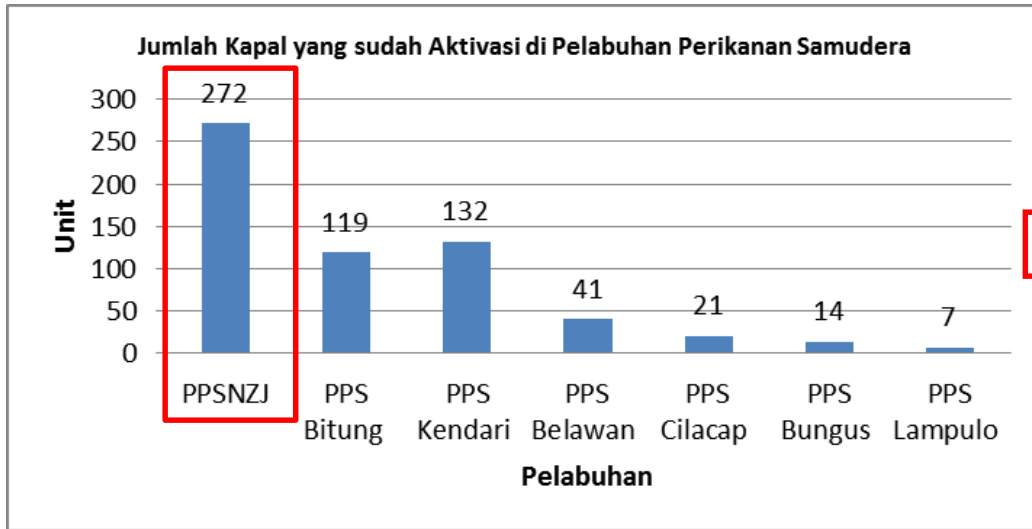
- A. < 5GT = 11 vessels (2018)
- B. 5-10 GT = 32 vessels (2018) and 10 vessels (2019)
- C. 10-20 GT = 92 vessels (2018) and 46 vessels (2019)
- D. 20-30 GT = 392 vessels (2018) and 137 vessels (2019)
- E. 30-50 GT = 5 vessels (2018) and 1 vessel (2019)
- F. 50-100 GT = 5 vessels (2018) and 2 vessels (2019)

Especially In PP. Lampulo dan PP. Idi, Aceh

Data Source: Team of e-log book Activation 10 January 2018

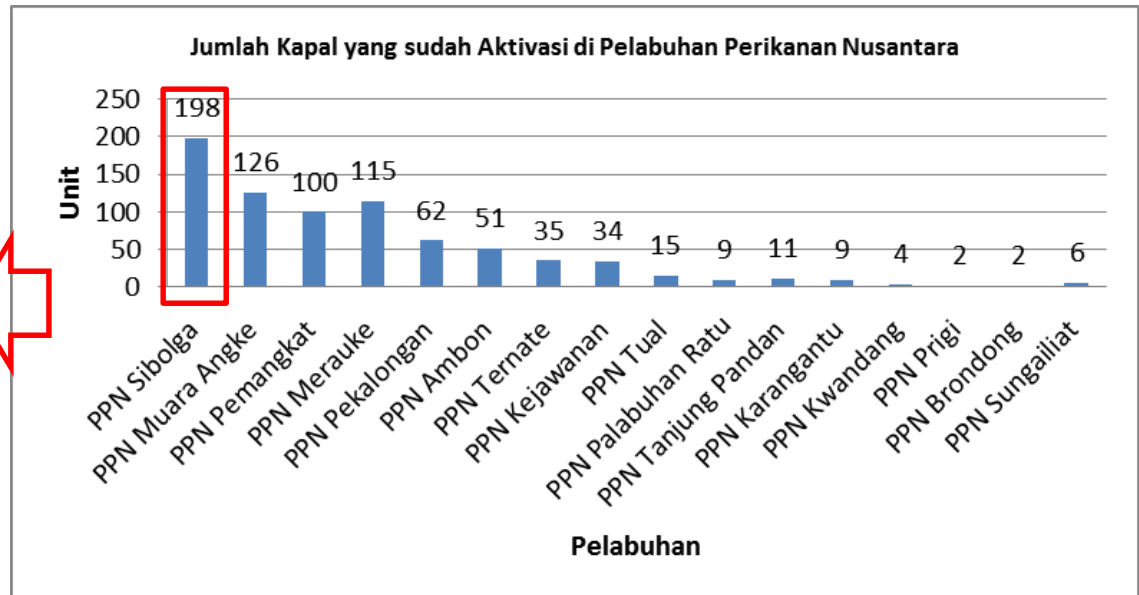


Number of Fishing Vessel Aktivasi E – Log Book (by Type of Fishing Port)



Oceanic Fishing Port has conducted ACTIVATION OF VESSELS with a total = 606 vessels, with the highest composition found in Nizam Zachman Fishing Port with 272 vessels.

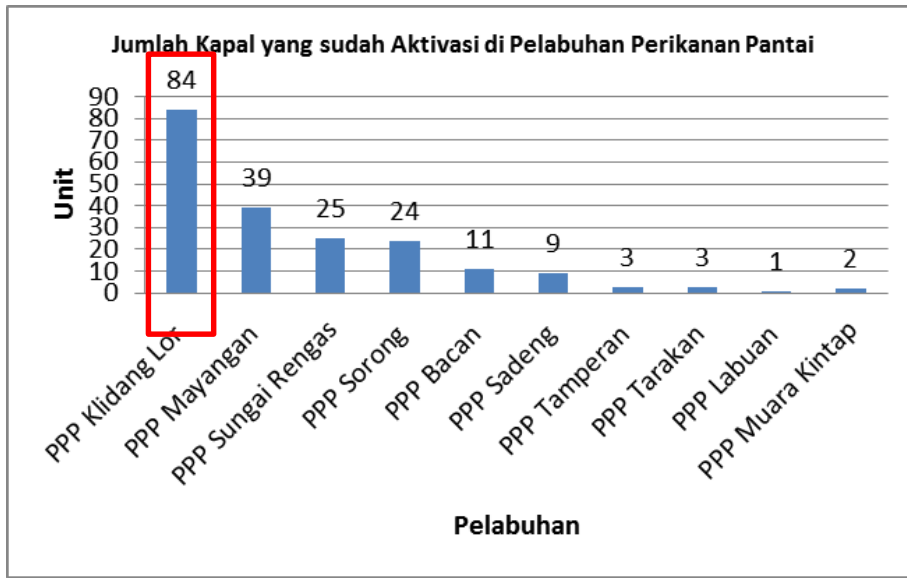
The Archipelagic Fishing Port has carried out ACTIVATION of VESSELS = 779 vessels, with the highest composition found in Sibolga Fishing Port = 198 vessels.



Data Source: Team of e-log book Activation 10 January 2018

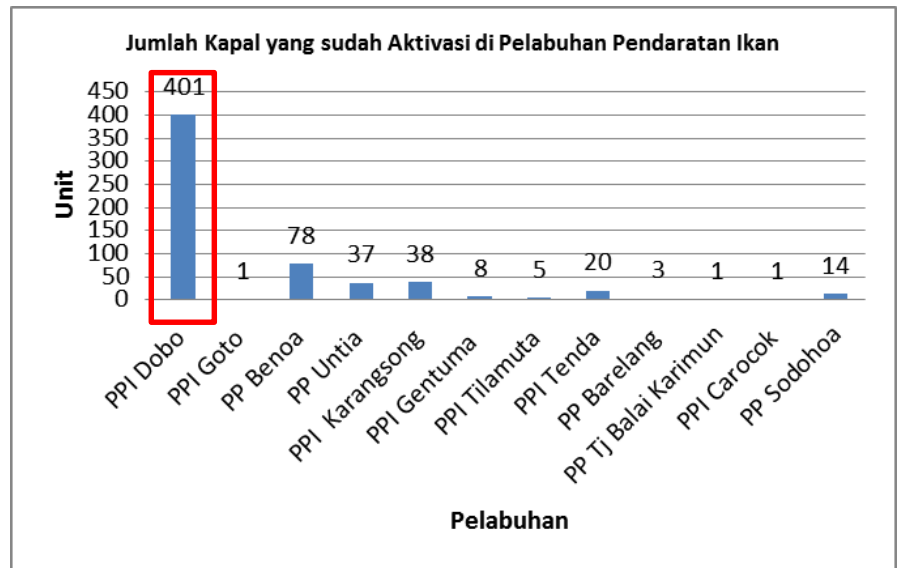


Number of Fishing Vessel Aktivasi E – Log Book (by Type of Fishing Port)



The Coastal Fishing Port has taken 201 vessels ACTIVATION, with the highest composition being in the Klidang Lor Fishing Port with 84 vessels.

The Landing Site has carried out 607 vessels of Vessels ACTIVATION, with the highest composition found in Dobo with 401 vessels.



Data Source: Team of e-log book Activation 10 January 2018



ROADMAP PENERAPAN e-Log Book Penangkapan Ikan



TAHUN 2018



Pengembangan aplikasi



Proses penginputan



Integrasi dengan aplikasi SILOPI

TAHUN 2019



Penyempurnaan aplikasi



Ujicoba dan pelatihan



Sosialisasi di Pelabuhan

TAHUN 2020



Penerapan di pelabuhan dan di seluruh kapal perikanan di Indonesia

START

GOAL



Sosialisasi ke Syahbandar dan Petugas Log Book



Ujicoba di atas kapal perikanan berukuran >30GT



Evaluasi ujicoba di lapangan

Penguatan sistem pelaporan hasil dan monitoring penangkapan ikan



Penerapan di pelabuhan dan di atas kapal perikanan berukuran >30 GT



Evaluasi



Monitoring, evaluasi dan pemanfaatan data dalam pengelolaan perikanan

Peningkatan kepatuhan pelaporan, ketepatan dan integrasi penggunaan data



2 | *Observer on Board*



1. Ministerial Decree No. 1/PERMEN-KP/2013 about Observer on Board;
2. Ministerial Decree No. PER.30/MEN/2012 jo Ministerial Decree No. PER.26/MEN/2013 about Fisheries Licenses;
3. Ministerial Decree No. PER.12/MEN/2012 about Fisheries Licenses in High Seas;
4. IOTC Resolution No. 11/04 about *Regional Observer Scheme*;
5. Conservation and Management Measure (CMM) WCPFC No. 2012-01 about “*Conservation And Management Measure For Bigeye, Yellowfin And Skipjack Tuna In The Western And Central Pacific Ocean*”.





Observer Deployment Obligations

1) Fishing vessels operating in Indonesia FMA's (> 30 GT):

- Lines group (like a long line)
- Groups of circular nets (such as purse seine), lift nets, and gill nets.

2) Carrier vessels operating in Indonesia FMA's (when transferring catches at sea).

3) Fishing vessels with purse seine equipment and long lines on the high seas.

1

Legal basis:

- Ministrial Regulation No: PER. 1/MEN/2013 about Observer on Board in Fishing Vessel and Carrier Vessel;
- IOTC Resolution No 11/04 about *Regional Observer Scheme*

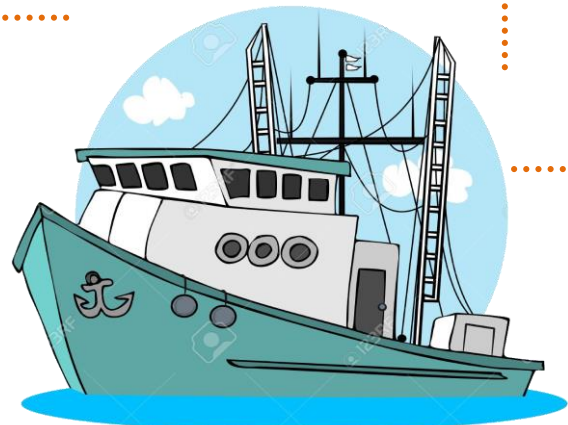
2

3

Total Observer

- National Observer* = 403
- Observer Tuna Long Line Japan* = 97

2



4

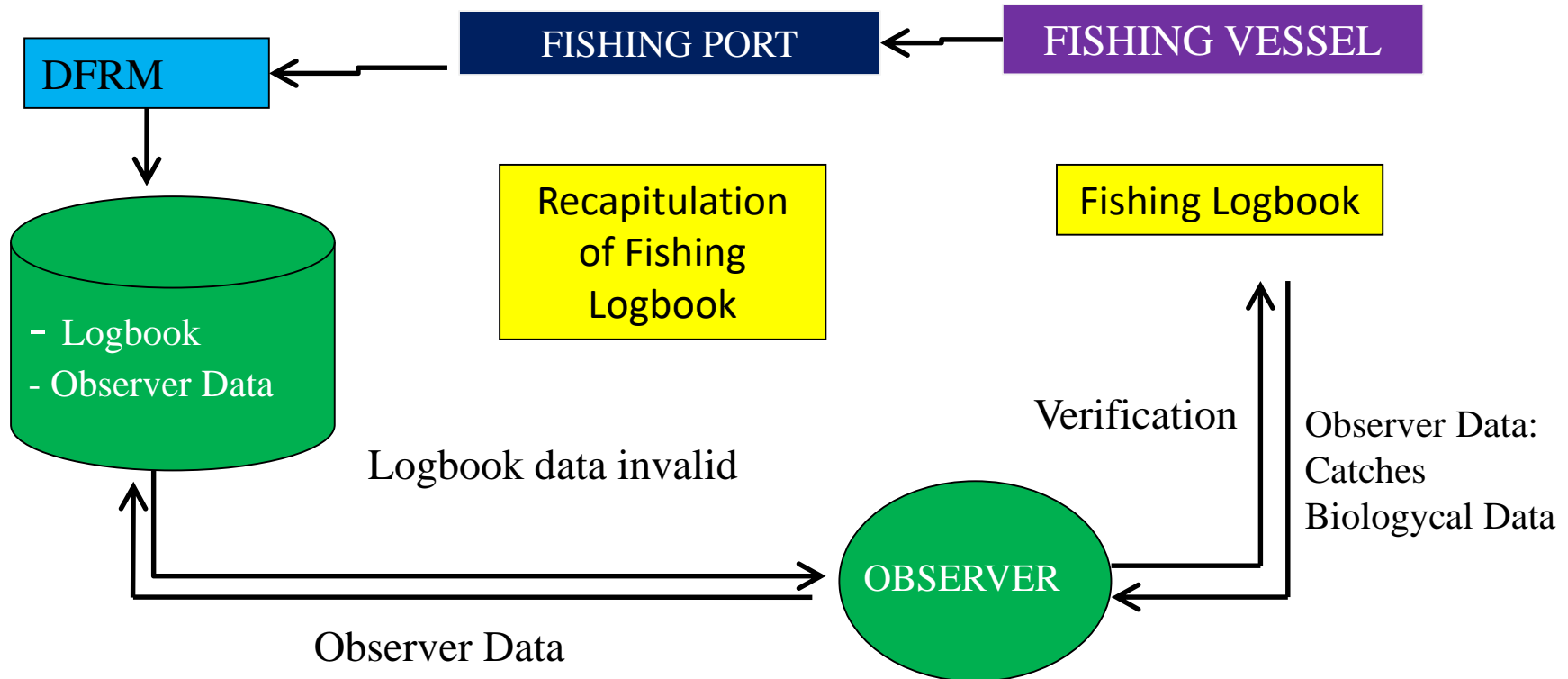
Problems:

- Observer Recruitment and Capacity Building.
- Observer Deployment.
- Total Trip and Observer Coverage.
- Compliance with Businessmen in Fisheries sectors.



Objectives:

1. Carry out observations, measurements, data records, and reporting of fishing activities; and
2. Carry out observations, data records, and reporting on the activities of transferring fish in the sea from (fishing vessels to fishing vessels) or from (fishing vessels to carrier vessels).



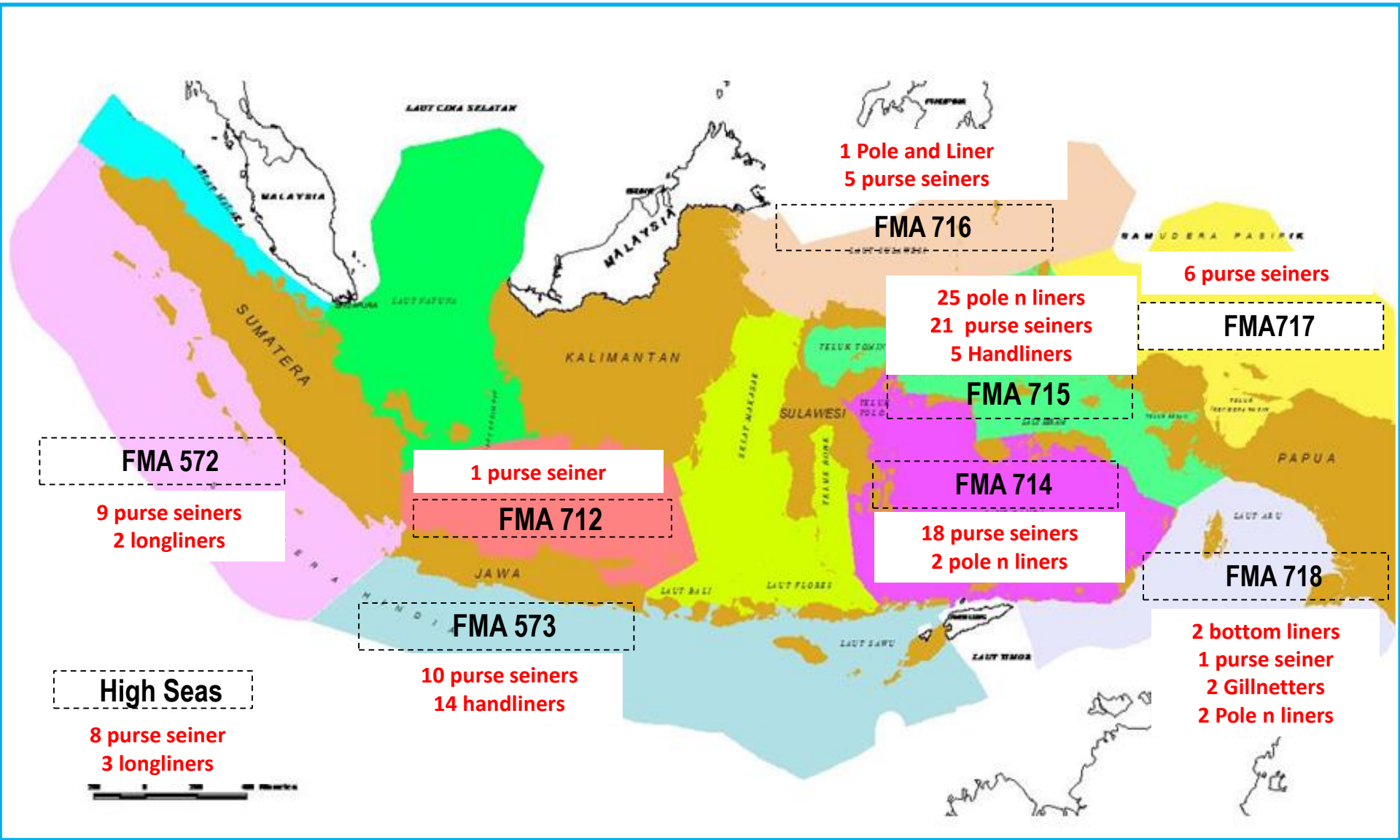


1. Fishing vessel operating in Indonesia FMA's (>30 GT):
 - a) Lines Groups (ex: long line).
 - b) Groups of circular nets (such as purse seine), lift nets, and gill nets.
 - c) Groups of Fish Nets and Trawls.
2. Carrier vessel operating in Indonesia FMA's (when transferring catches at sea).
3. Fishing vessels with purse seine equipment and long lines on the high seas.

Note: for the transfer of catches in the RFMOs convention area, the observer comes from a secretariat that has RFMOs standards.

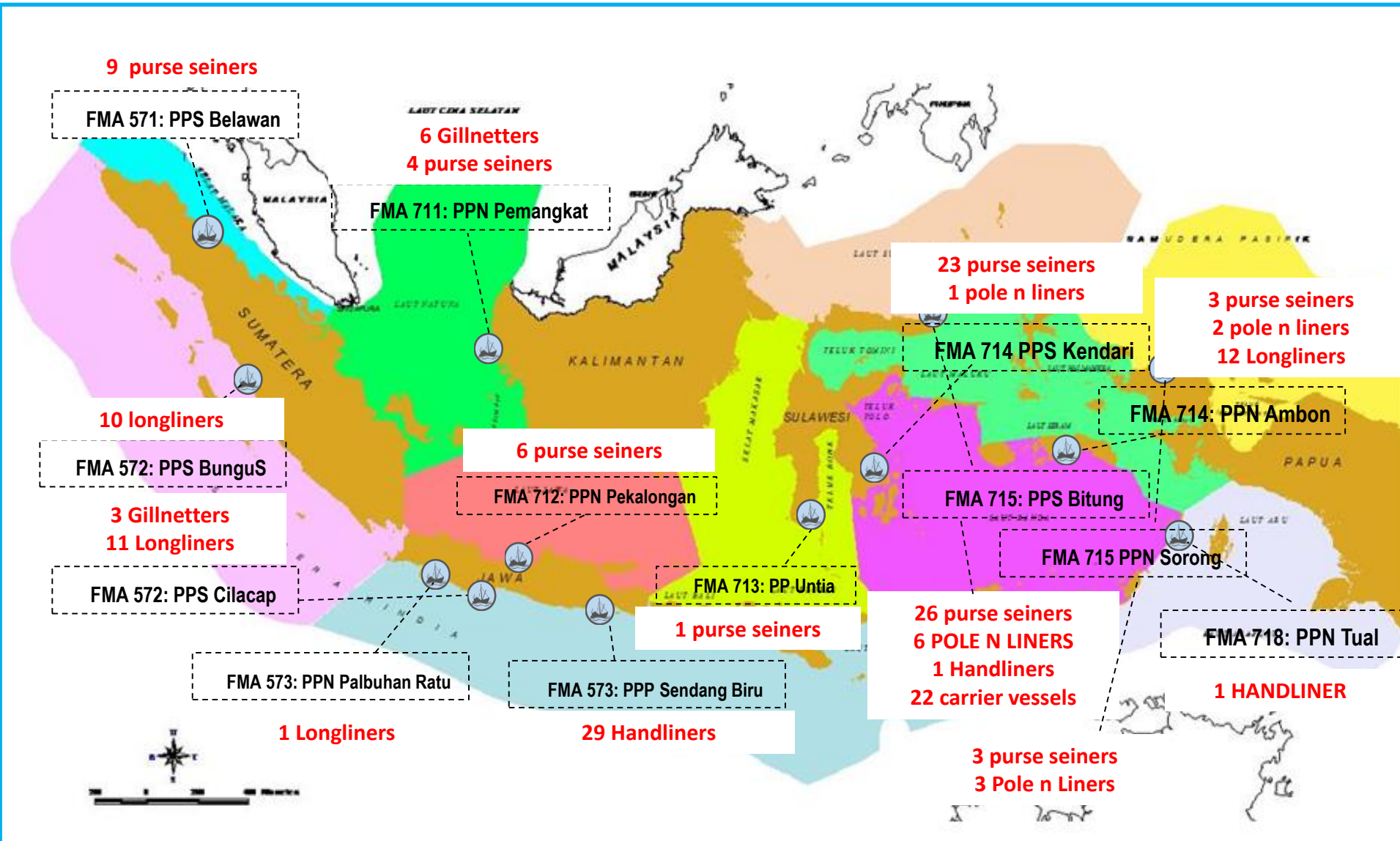
FMA's	2012	2013	2014	2015	2016	2017	2018
571	-	1	-	-	-	9	5
572	-	1	9	-	11	24	23
573	8	2	8	-	24	35	79
711	-	5	-	-	-	10	3
712	-	-	-	-	1	5	10
713	-	-	-	-	-	1	6
714	-	-	-	-	20	41	70
715	-	3	6	10	51	27	52
716	-	4	3	-	6	27	6
717	-	8	8	-	6	1	-
718	-	1	10	-	7	1	-
High Seas	1	-	6	-	11	-	-
Total	9	25	50	10	137	161	254

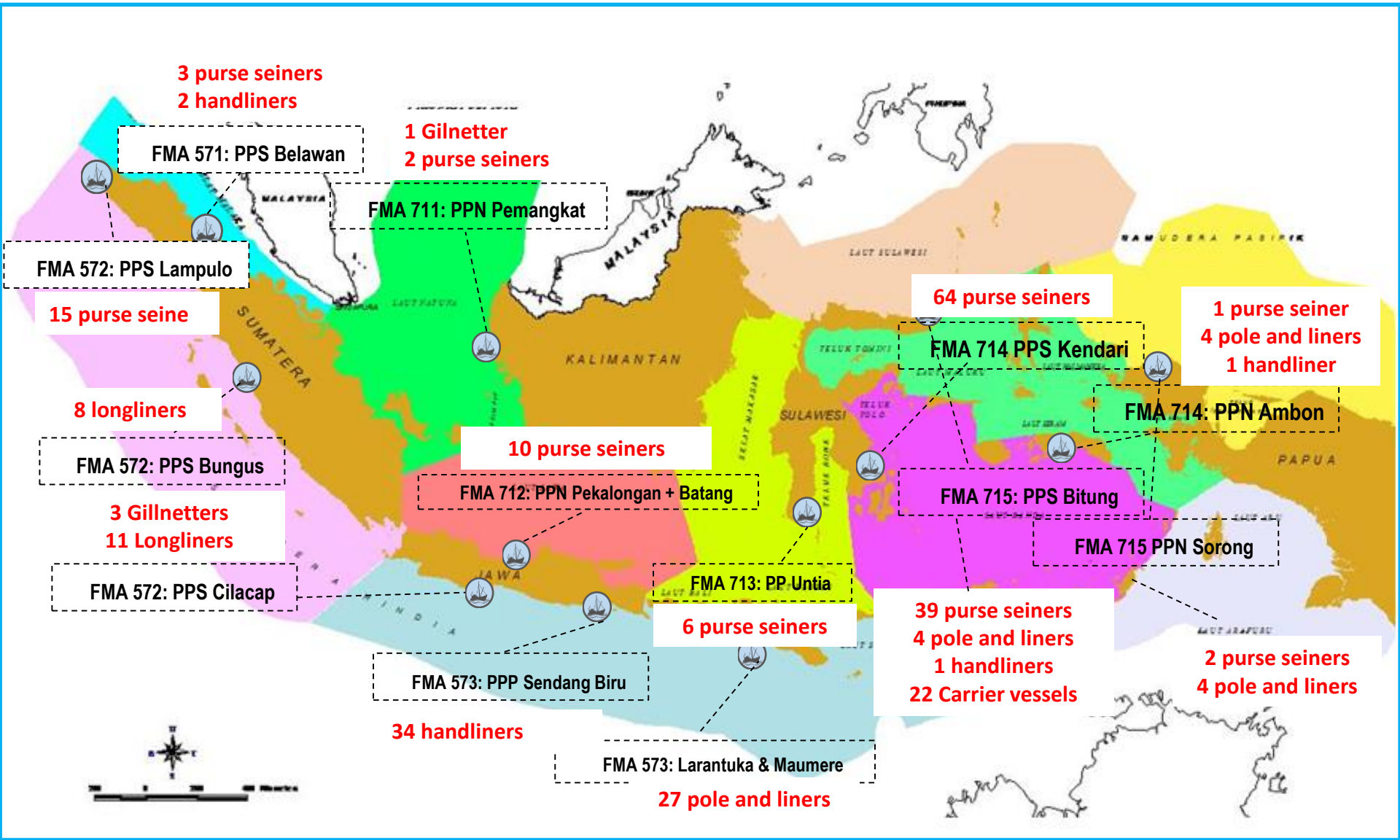
Note : in 2017 (85 observers), in 2016 (104 observers), in 2015 (13 observers), & in 2014 (28 observers)





Observer on Board Deployment in 2017 (161 vessels)

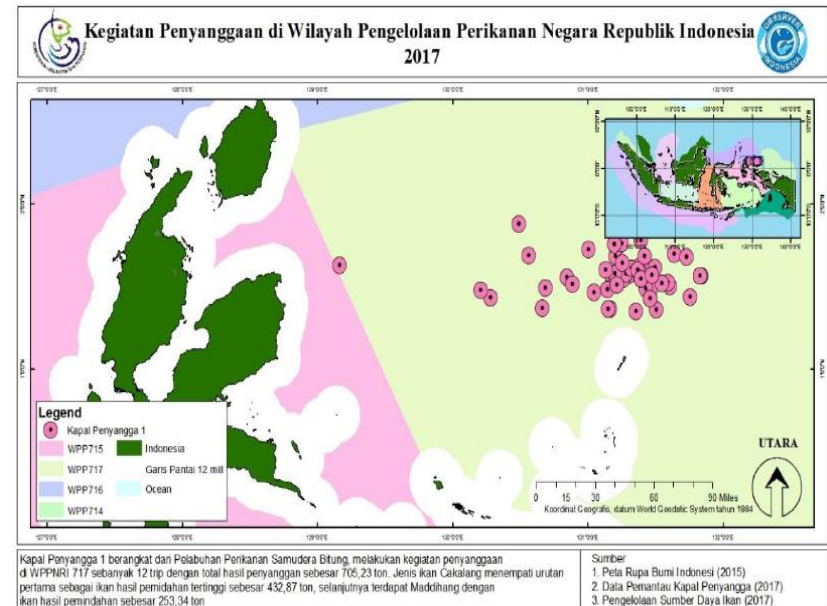






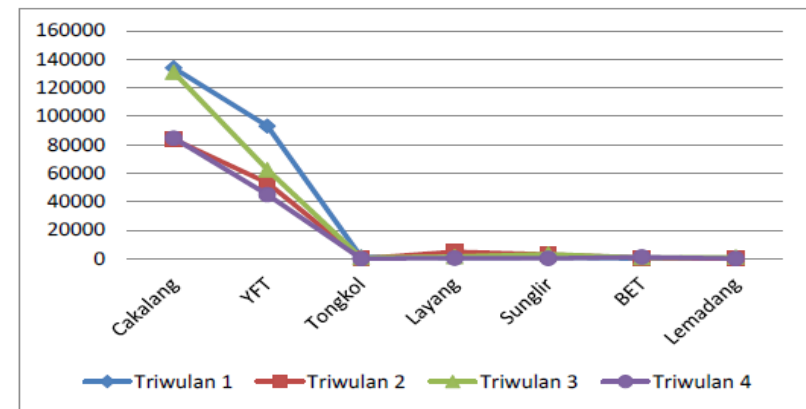
Tabel 4. 81. Daftar 22 Kapal Penyangga

No	Nama Kapal	Perusahaan	Tanda Selar	Pelabuhan Keberangkatan
1	2	3	4	5
1	Kapal Penyangga 1	PT. Pathemaang Raya	GT.102 No.1026/Kka	PPS Bitung
2	Kapal Penyangga 2	PT. Putra Jaya Kota	GT.149 No.919/Pd	PPS Bitung
3	Kapal Penyangga 3	PT. Samudera Mandiri Sentosa	GT.98 No.1270/Pd	PPS Bitung
4	Kapal Penyangga 4	PT. Putra Jaya Kota	GT.108 No.3226/Bc	PPS Bitung
5	Kapal Penyangga 5	PT. Bina Nusa Mandiri Pertiwi	GT.67 No.6702/Bc	PPS Bitung
6	Kapal Penyangga 6	PT. Budi Sentosa Abadi	GT.128 No.2512/PPb	PPS Bitung
7	Kapal Penyangga 7	IR. Haryani Sudarmo	GT.120 No.845/Fp	PPS Bitung
8	Kapal Penyangga 8	PT. Budi Sentosa Abadi	GT.98 No.3300/Bc	PPS Bitung
9	Kapal Penyangga 9	PT. Pathemaang Raya	GT.103 No.1027/Kka	PPS Bitung
10	Kapal Penyangga 10	PT. Bintang Mandiri Bersaudara	GT.73 No. 1224/KKb	PPS Bitung
11	Kapal Penyangga 11	PT. Pathemaang Raya	GT.157 No.1966/KKb	PPS Bitung
12	Kapal Penyangga 12	PT. Budi Sentosa Abadi	GT.98 No.5658/Bc	PPS Bitung
13	Kapal Penyangga 13	PT. Pathemaang Raya	GT.99 No.874/Kka	PPS Bitung
14	Kapal Penyangga 14	PT. Multi Indofish	GT.128 No.104/Gb	PPS Bitung
15	Kapal Penyangga 15	PT. Bina Nusa Mandiri Pertiwi	GT.57 No.6613/Bc	PPS Bitung
16	Kapal Penyangga 16	PT. Budi Sentosa Abadi	GT.96 No.2469/PPb	PPS Bitung
17	Kapal Penyangga 17	PT. Budi Sentosa Abadi	GT.98 No.2470/PPb	PPS Bitung
18	Kapal Penyangga 18	PT. Multi Indofish	GT.135 No.2047/KKb	PPS Bitung
19	Kapal Penyangga 19	PT. Bitung Samudera Jaya	GT.128 No.1399/Hha	PPS Bitung
20	Kapal Penyangga 20	PT. Multi Indofish	GT.128 No.2046/KKb	PPS Bitung
21	Kapal Penyangga 21	PT. Jaya Bali Bersaudara	GT.144 No.672/Pd	PPS Bitung
22	Kapal Penyangga 22	PT. Samudera Mandiri Sentosa	GT.88 No.1148/Pd	PPS Bitung



Tabel 4. 82. Ikan Hasil Pemindahan dari Kapal Penangkap ke Kapal Penyangga 1

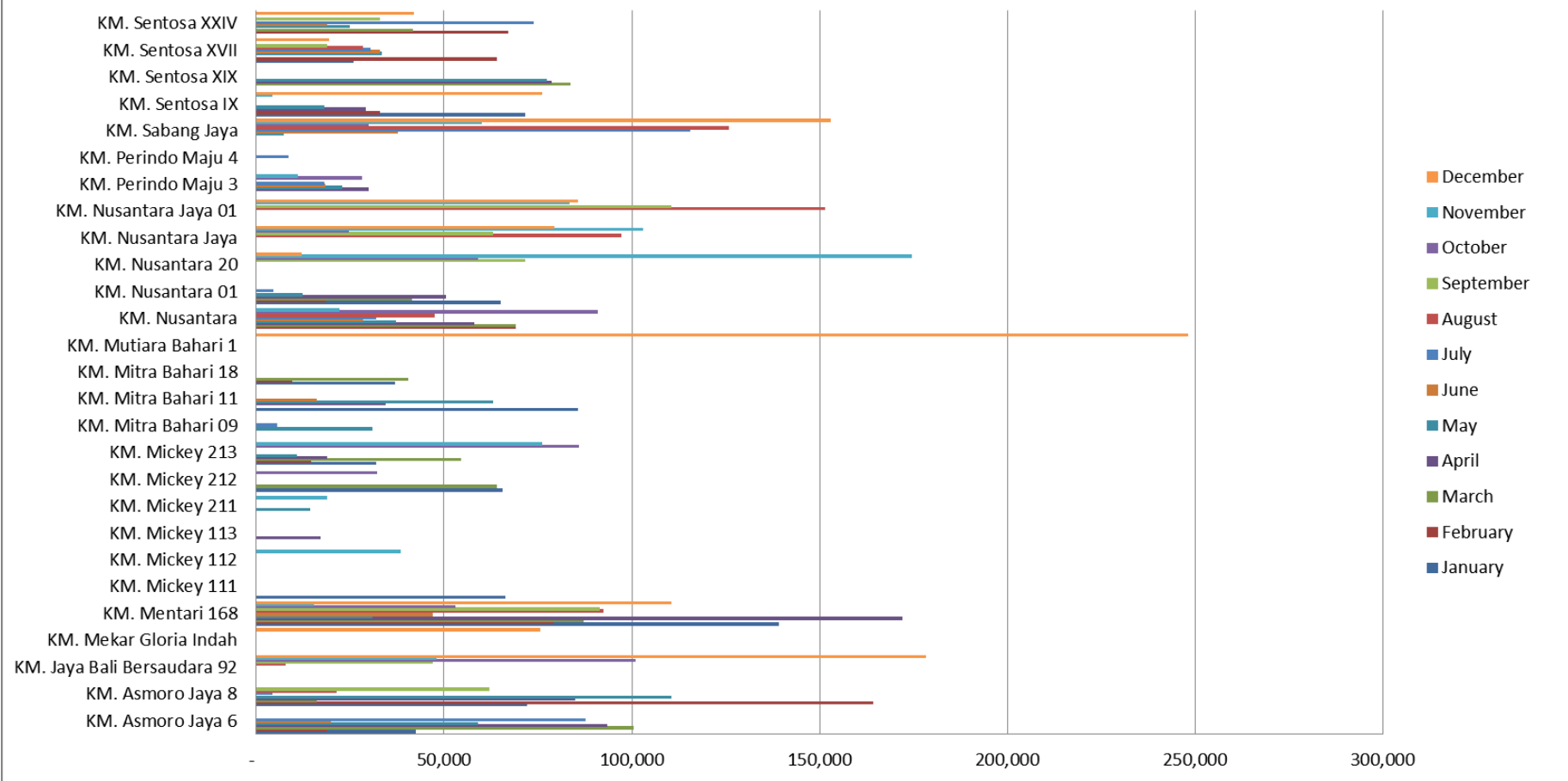
Triwulan	Trip	Cakalang	Madidihang	Tongkol	Layang	Sunglir	Mata Besar	Lemadang
Triwulan 1	5	133850	92950	1150	450	700	0	0
Triwulan 2	2	83702	53110	0	4880,5	2857,5	500	0
Triwulan 3	2	130726,5	62401,5	750	1300	3108	700	1100
Triwulan 4	3	84600	44880	0	300	100	1120	0



Gambar 4. 93. Grafik Ikan Hasil Pemindahan per Spesies

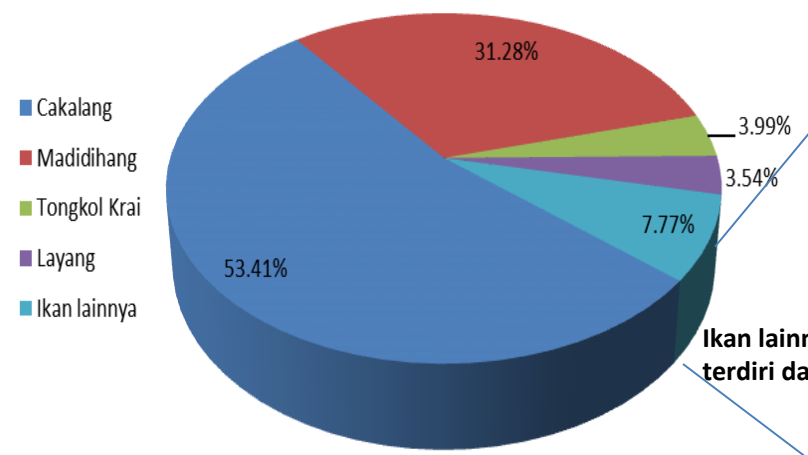


Produksi Ikan Hasil Penyanggaan per Kapal Tahun 2018



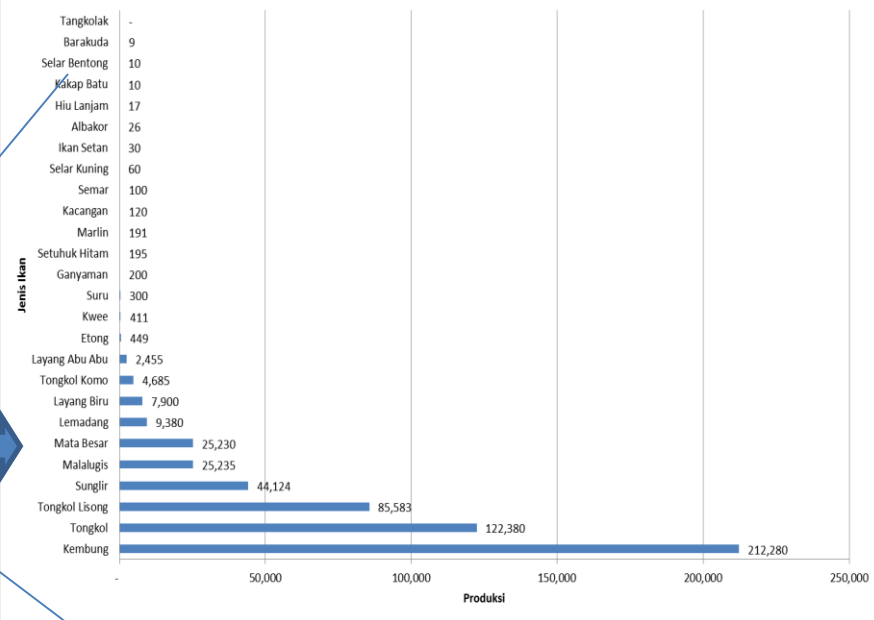


Produksi Ikan Hasil Penyanggaan per Jenis Tahun 2018



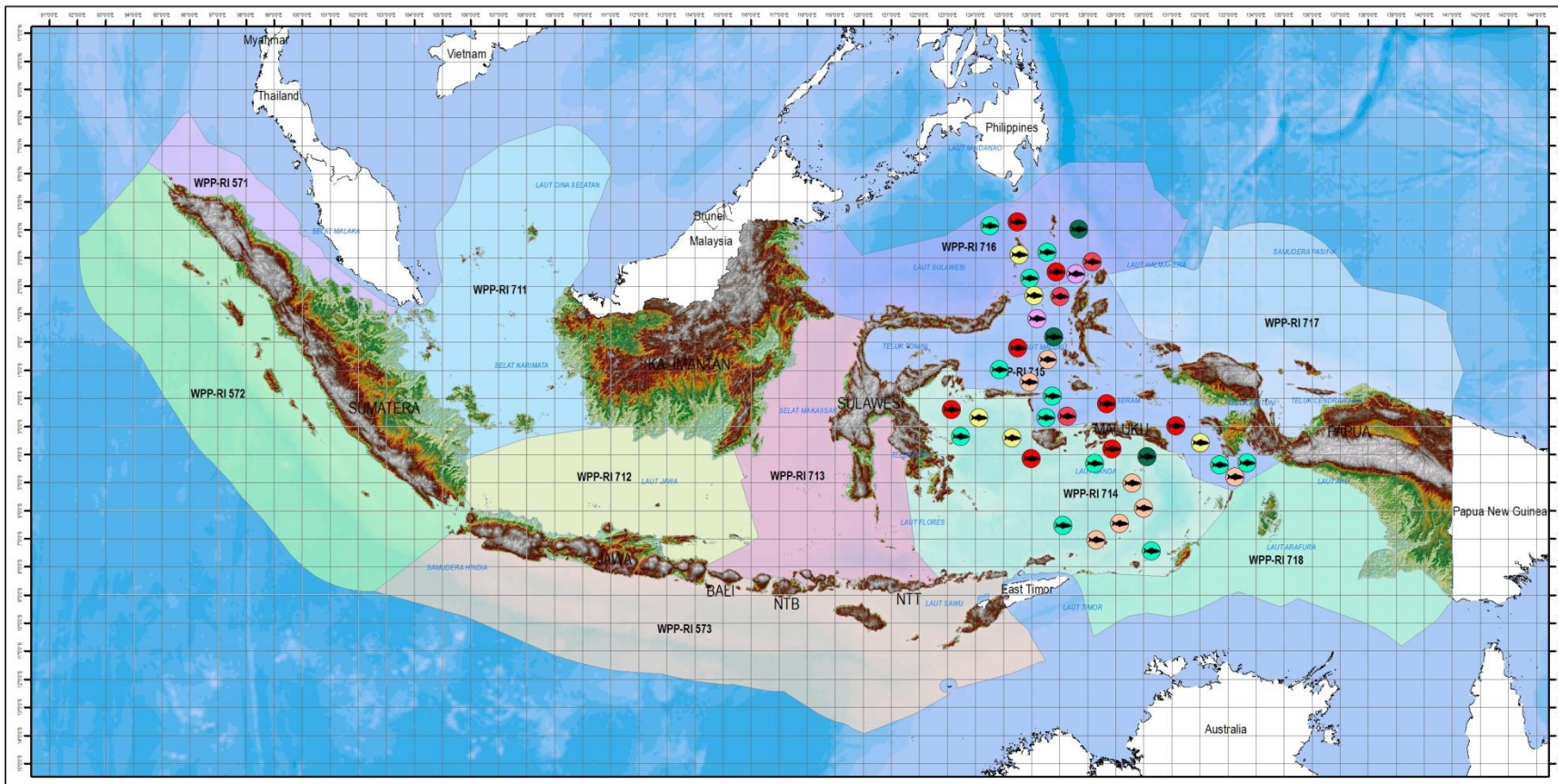
Ikan lainnya terdiri dari

Produksi Ikan Hasil Penyanggaan per Jenis Tahun 2018



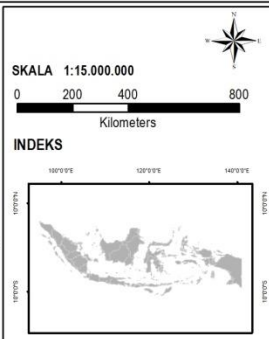


Tunas Distribution in WCPFC Convention Areas (observer data 2017)



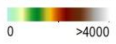

KEMENTERIAN KELAUTAN DAN PERIKANAN
DIREKTORAT PENGELOLAAN SUMBERDAYA IKAN
SUBDIT PEMANTAUAN DAN ANALISIS
PENGELOLAAN SUMBERDAYA IKAN


PETA SEBARAN JENIS IKAN



LEGENDA

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 - - - - - Batas Negara

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KEDALAMAN (M)

 0-500 >6500

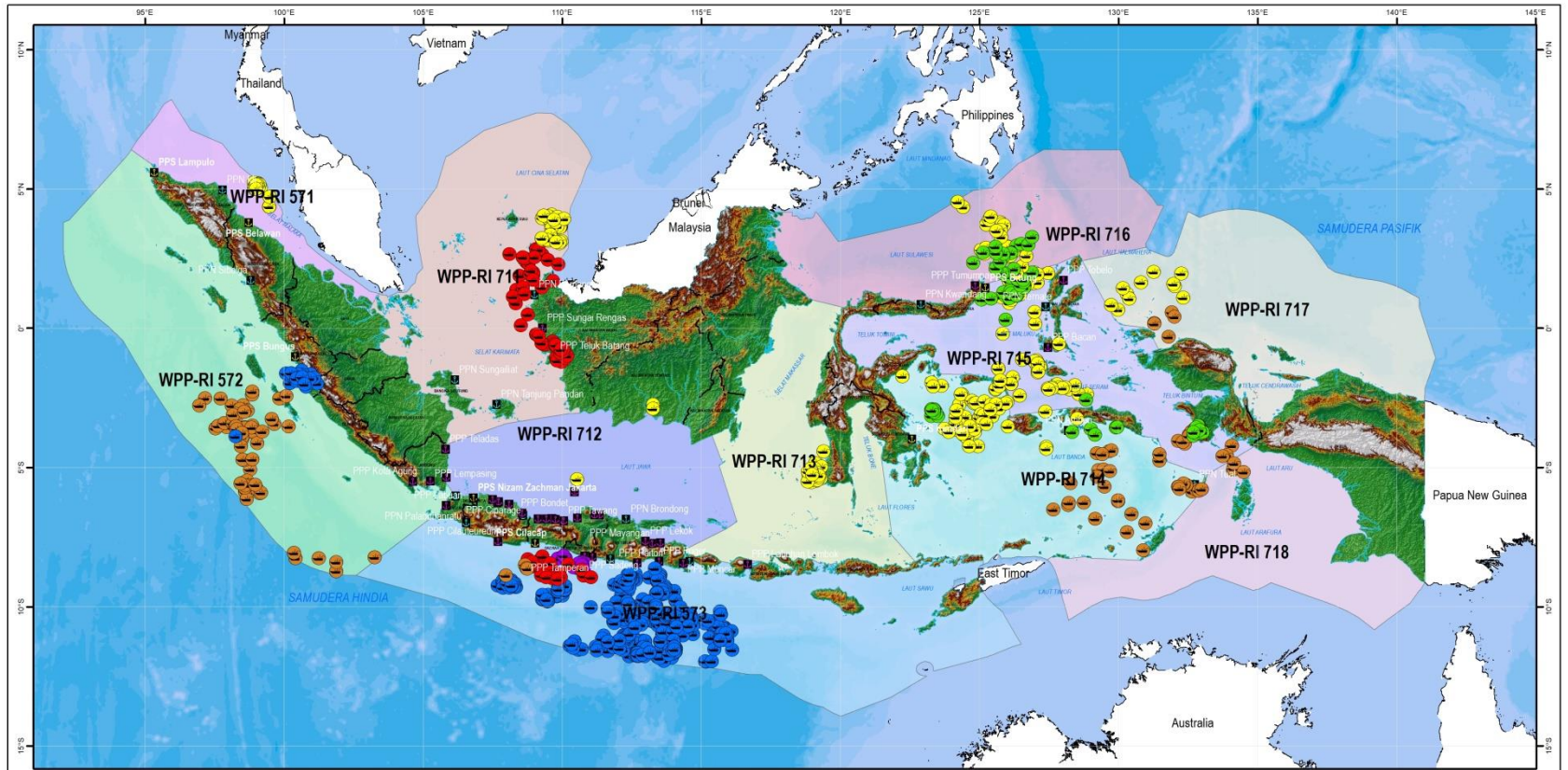
JENIS IKAN

-  Cakalang (SKJ)
-  Madidihing (YFT)
-  Tongkol Banyar (FRI)
-  Tongkol Pisang Cerutu (BLT)
-  Tuna Mata Besar (BET)
-  Tongkol Komo (KAW)

Proyeksi : Geographic Reference System
 Sistem Grid : Grid Geografi
 Datum Horizontal : Datum WGS - 1984

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3. Data Observer 2017
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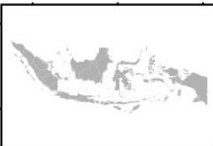



DIREKTORAT PENGELOLAAN SUMBERDAYA IKAN
DIREKTORAT JENDERAL PERIKANAN TANGKAP
KEMENTERIAN KELAUTAN DAN PERIKANAN
2018

PETA ALAT PENANGKAPAN IKAN BERDASARKAN
DATA OBSERVER 2017

Proyeksi: Sistem Grid
 Datum Horizontal: Datum Geografis
 Datum WGS - 1984

SKALA 1:15.000.000
 0 200 400 800
 Kilometers

INDEKS


LEGENDA
ADMINISTRASI
 - - - Batas Provinsi
 - - - - Batas Negara
 ——— Garis Pantai
PELABUHAN
 Pelabuhan Perikanan Samudera
 Pelabuhan Perikanan Nusantara
 Pelabuhan Perikanan Pantai
KETINGGIAN (M) KEDALAMAN (M)


JENIS ALAT PENANGKAPAN IKAN
 Handline
 Longline
 Gill Net
 Driftnets
 Pole and Line

SUMBER PETA
 1. Peta RBI 1:1.000.000
 2. Peta WPP RI
 3. Data Observer 2017
 4. Data Gebco
 5. Data SRTM

THANK YOU



Ministry of Marine Affairs and Fisheries
Directorate General of Capture Fisheries

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