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## I-Fish Data Usage Guidelines

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I-Fish is an online database that stores data of tuna fishery data sampling on vessels under 30 GT that can be used throughout Indonesia (Figure 1). I-Fish provides specific data, such as fishing activities based on fishing grounds and fishing gear. The aim is to create a platform that facilitates data collection and analysis activities as well as accessibility to support better fisheries management.

One of the tasks of the Tuna Fisheries Co-Management Committee (hereafter FCMC) at the provincial level is related to the effectiveness of the utilization of the I-Fish database, in this case, the FCMC acts as the owner of the data available in the I-Fish database. The Tuna Fisheries Co-Management Committee acts as a forum for stakeholders to conduct discussions on the use of data at the provincial level or other interests (Figure 2).

This document aims to explain the procedures for access and user rights to data in the I-Fish online database for stakeholders and the public.

### 1. I-Fish Structure

The Tuna Fisheries Co-Management Committee (FCMC) collects data using specific sampling protocols that are available to the public. This protocol can be downloaded from the [website](#). Data available from 2012 according to the location where data collection began.

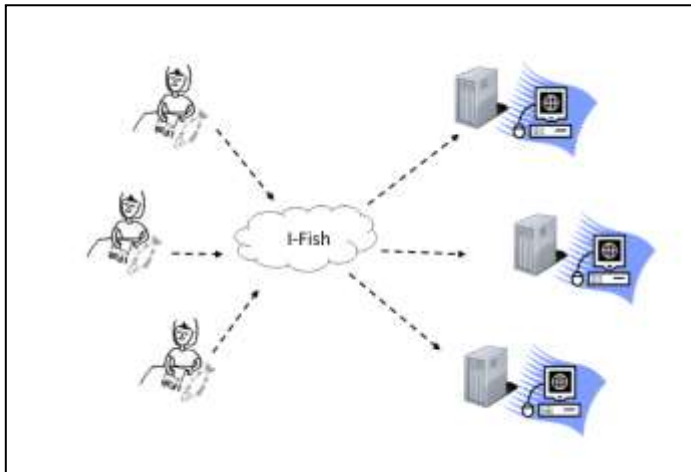


Figure 1. Field workers employed by NGOs or industries enters data from various locations in Indonesia. Data enters into the cloud server. From there, data will go into various KKP databases.



Figure 2. Members of the Tuna Fisheries Co- Management Committees.

The data is stored in a cloud server in Indonesia, sent to various KKP fisheries databases (for example, Research and Development, SDI, and so on, Figure 1). The goal is this platform to become a method for submitting data to the government.

2. Basic principles relating to data storage and ownership
  - a. Data collected by the I-Fish system is stored on cloud servers in Jakarta, Indonesia. Data is secured using a special firewall.
  - b. FCMC is the owner of the data. This is written down specifically in the Decree which defines the structure, objectives and targets of the FCMC. If the FCMC does not yet exist in a province or area of catch, then ownership of the data is given to the government.
3. Basic principles relating to the use and access of data
  - a. Every company owner, Fish Collector or Fisherman who contributes data to the I-Fish system will have full access to data related to business or fishery activities. Data is available in raw data format and also summaries of data accompanied by basic analysis.
  - b. This data is always available no later than 14 (fourteen) days from the date of data collection in the field. The use of data outside the situation described in points 3.a and 3.b will be regulated through requests for data requests. Stakeholders who want to get access to more detailed data from the data available to them as a user group, must submit a data request form. An example of a data request form is provided in **Appendix I** to this document. Data remains anonymous and cannot be linked to a company, fish collector, or fishing boat. In the provinces where the FCMC is located, data requests are directed to the FCMC chairperson according to the province that has the authority to authorize the data. In provinces where there is no FCMC, data can be provided if PSDI has **agreed** to the request.
  - c. The guideline is developed to facilitate the use and access of data by stakeholders and interested parties for **research and sustainable fisheries purposes**. The use and distribution of data for **commercial and competitive purposes will not be supported**.
  - d. Data and information stored in the I-Fish database can only be used and accessed according to guidelines that **reflect the confidentiality and security agreements** that have been made with I-Fish stakeholders.
  - e. The Guideline for using data and access only relate to stakeholders and related parties other than the government. The government does not have to send a request form to access the data.
4. Data available for users who are given an I-Fish user login

I-Fish has an online login system. Data can be accessed from the database through the I-Fish website.

  - a. Users who are given an I-Fish login will have access to data that is restricted according to their geographical location and type of stakeholders (for example

ship owners participating in this program can only access data related to boats in their area. They cannot access data from the other company or other boat owners).

- b. Users who are given an I-Fish login can download data from the I-Fish website, according to their access permission as outlined in point 3 above.
5. This guide will be periodically reviewed and, if necessary, modified according to the current situation and conditions. Users are obliged to abide these changes in the future.
6. All usernames and passwords must be kept confidential and secure and cannot be given to other parties.
7. Stakeholders who are given data, do not automatically benefit intellectual property.
8. Stakeholders who violate these guidelines will be suspended from access until further inspection by the local FCMC.
9. Data sources (for example I-Fish) must be accredited in any reporting or publication arising from the use of I-Fish data.

## **I-Fish Data Request Procedure**

1. Submitting a written request letter to the Tuna Fisheries Co-Management Committee (FCMC) by sending an email requesting data to; wildan@mdpi.or.id (Fisheries Improvement Manager), cc; riza@mdpi.or.id, timur@mdpi.or.id, info@mdpi.or.id, by attaching a letter of introduction from the institution / agency / organization, filling out the form in Appendix 1. (Please adjust the required data).
2. Fill in the I-Fish data request form according to attachment 2.
3. In case the application is approved, the FCMC (Chairperson or Secretary) will issue an approval letter.
4. FCMC checks and verifies I-Fish data facilitated by Yayasan Masyarakat dan Perikanan Indonesia (MDPI)
5. When the data has been verified, MDPI will send the data to the requester.
6. Approval of data requests as referred to numbers 1-5 is done by considering the benefits for the FCMC and the fishermen. This process can take up to **45 business days**.
7. Data can only be used **within two years after being published**.

## Appendix I - Data Request Format

Users who request data from I-Fish must send a data request letter to the FCMC according to the location and/or MDPI who will forward the request.

|  |      |
|--|------|
| Organization<br>Logo   |      |
| Subject:   | Date |
| Dear Sir/Madam   |      |
| <b>Chairperson of the Tuna Fisheries Co-Management Committee (FCMC)</b><br><b>Komite Pengelola Bersama Perikanan (KPBP) Tuna</b><br><b>Province .....</b>                        |      |
| Paragraph 1 (Explain your organization, vision & mission)  |      |
| Paragraph 2 (Explain about work partners, a little about organizational activities)  |      |
| Paragraph 3 (Explain the purpose of the data request, what are the benefits for the FCMC or data owner and the type of data or information needed, attach the data request form) |      |
| Paragraph 4 (Closing)  |      |
| Thank you  |      |
| (Signature and stamp)  |      |
| Director of Organization   |      |

1. Tujuan Purpose

*(Please fill in what are the main objectives and what are the mutual reciprocal relationship of the data request for the Committee's Interests)*

2. Approval of FCMC Data

FCMC approves each data request by assessing the intended use of the data based on a number of criteria. Assess the data request and the intended use of the data based on the following points:

| Rating Points  | Yes | No |
|--|-----|----|
| Data not relate to individuals or companies                    |     |    |
| The use of data will not harm those who contribute to the data |     |    |
| Data requester signature                                       |     |    |

3. Requested Data

Existing raw data are available for handline tuna fisheries (1), as well as tuna fisheries (2), mangrove crabs (3), snapper and grouper (4) pole and line, (5) Time Lapse Camera, (6) Spot Trace and (7) Mini Purse seine for Small Pelagic Fishing. Each type of fishery has a different data request form (see below). Complete the data request form according to the type of fishery.

### 1. Handline Tuna Fishery Data Request Form

| Date of request   |                  | Date required                    |                     |                 |                   |
|---|------------------|----------------------------------|---------------------|-----------------|-------------------|
| Organisation name   |                  | Contact Person                   |                     |                 |                   |
| Contact email   |                  | Contact phone number             |                     |                 |                   |
| Select the province for which you want the data (with a cross): |                  |                                  |                     |                 |                   |
| Maluku  | Maluku Utara     | Nusa Tenggara Barat              | Nusa Tenggara Timur |                 |                   |
| Sulawesi Utara  | Sulawesi Selatan | Papua Barat                      |                     |                 |                   |
| Requested data range (in years):                                |                  |                                  |                     |                 |                   |
| Give a cross to mark each data point that interests you         |                  |                                  |                     |                 |                   |
| <i>Trip summary</i>   |                  | <i>Bait</i>                      |                     | <i>Bycatch</i>  |                   |
| <i>Data point</i>   | <i>Request</i>   | <i>Data point</i>                | <i>Data point</i>   | <i>Request</i>  | <i>Data point</i> |
| Landing site  |                  | Category                         |                     | Species         |                   |
| Fishing grounds   |                  | Species                          |                     | Number of catch |                   |
| Use of FAD  |                  | Fishing grounds                  |                     | Total weight    |                   |
| Total catch   |                  | Total bait                       |                     |                 |                   |
| Estimated lost fish   |                  | Bait catching device             |                     |                 |                   |
| Sampling date   |                  | Domestic/import catch            |                     |                 |                   |
| Sampling time   |                  | Bait supply (procure/self catch) |                     |                 |                   |
| Length of trip  |                  |                                  |                     |                 |                   |
| Fuel consumption  |                  |                                  |                     |                 |                   |
| Ice Consumption   |                  |                                  |                     |                 |                   |
| Boat Capacity   |                  |                                  |                     |                 |                   |
| Length of the boat  |                  |                                  |                     |                 |                   |
| Engine Capacity   |                  |                                  |                     |                 |                   |
| Tuna location search techniques                                 |                  |                                  |                     |                 |                   |
| Type of hook  |                  |                                  |                     |                 |                   |
| Number of crew  |                  |                                  |                     |                 |                   |
| Material of boat  |                  |                                  |                     |                 |                   |
| Handline troll  |                  |                                  |                     |                 |                   |
| Other catch devices   |                  |                                  |                     |                 |                   |
|   |                  |                                  |                     |                 |                   |

| <i>Fish Data subsampling &lt;10kg</i> |                | <i>Fish Data &gt;10kg</i> |                   | <i>Quality</i> |                   |
|---------------------------------------|----------------|---------------------------|-------------------|----------------|-------------------|
| <i>Data point</i>                     | <i>Request</i> | <i>Data point</i>         | <i>Data point</i> | <i>Request</i> | <i>Data point</i> |

|                 |  |                     |  |   |  |
|-----------------|--|---------------------|--|---|--|
| Basket's weight |  | Species             |  | Catch from each quality code for fish <10kg |  |
| Species         |  | Quality Code        |  | Catch from each quality code for fish <10kg |  |
| Length of fish  |  | Whole weight        |  |   |  |
|                 |  | Whole length        |  |   |  |
|                 |  | Loin Weight         |  |   |  |
|                 |  | Loin Length         |  |   |  |
|                 |  | Includes gills      |  |   |  |
|                 |  | Includes gut        |  |   |  |
|                 |  | Includes belly meat |  |   |  |



## 2. Data Pole and Line Fishery Data Request Form

|   |                  |                                  |                     |                   |                |
|---|------------------|----------------------------------|---------------------|-------------------|----------------|
| Date of request   |                  | Date required                    |                     |                   |                |
| Organisation name   |                  | Contact Person                   |                     |                   |                |
| Contact email   |                  | Contact phone number             |                     |                   |                |
| Select the province for which you want the data (with a cross): |                  |                                  |                     |                   |                |
| Maluku  | Maluku Utara     | Nusa Tenggara Barat              | Nusa Tenggara Timur |                   |                |
| Sulawesi Selatan  | Sulawesi Selatan | Papua Barat                      |                     |                   |                |
| Requested data range (in years):                                |                  |                                  |                     |                   |                |
| Give a cross to mark each data point that interests you         |                  |                                  |                     |                   |                |
| <i>Trip Summary</i>   |                  | <i>Bait</i>                      |                     | <i>Bycatch</i>    |                |
| <i>Data point</i>   | <i>Request</i>   | <i>Data point</i>                | <i>Request</i>      | <i>Data Point</i> | <i>Request</i> |
| Landing site  |                  | Category                         |                     | Species           |                |
| Fishing grounds   |                  | Species                          |                     | Number of catch   |                |
| Fishing gear  |                  | Fishing areas                    |                     | Total weight      |                |
| Use of FAD  |                  | Bait Supply (procure/self catch) |                     |                   |                |
| Total catch   |                  | Number of basket                 |                     |                   |                |
| Estimated lost fish   |                  | Total bait                       |                     |                   |                |
| Sampling date   |                  | Estimated bait                   |                     |                   |                |
| Sampling time   |                  | Gear to catch bait               |                     |                   |                |
| Length of trip  |                  | Domestic/import catch            |                     |                   |                |
| Fuel consumption  |                  |                                  |                     |                   |                |
| Ice consumption   |                  |                                  |                     |                   |                |
| Boat capacity   |                  |                                  |                     |                   |                |
| Boat length   |                  |                                  |                     |                   |                |
| Engine capacity   |                  |                                  |                     |                   |                |
| Tuna location search techniques                                 |                  |                                  |                     |                   |                |
| Number of use of hook/line                                      |                  |                                  |                     |                   |                |
| Number of crew  |                  |                                  |                     |                   |                |
| Material of the boat  |                  |                                  |                     |                   |                |
| Fishing gear  |                  |                                  |                     |                   |                |
| Capacity of bait basket   |                  |                                  |                     |                   |                |
|   |                  |                                  |                     |                   |                |
|   |                  |                                  |                     |                   |                |
| <i>Data subsampling &lt;10kg</i>                                |                  | <i>Catch Data &gt;10kg</i>       |                     | <i>Quality</i>    |                |

| <i>Data point</i>    | <i>Request</i> | <i>Data point</i>   | <i>Data point</i> | <i>Request</i>                              | <i>Data point</i> |
|----------------------|----------------|---------------------|-------------------|---|-------------------|
| Weight of the basket |                | Species             |                   | Catch from each quality code for fish <10kg |                   |
| Species              |                | Quality Code        |                   | Catch from each quality code for fish <10kg |                   |
| Length of fish       |                | Whole weight        |                   |   |                   |
|                      |                | Whole length        |                   |   |                   |
|                      |                | Loin weight         |                   |   |                   |
|                      |                | Loin length         |                   |   |                   |
|                      |                | Includes gills      |                   |   |                   |
|                      |                | Includes gut        |                   |   |                   |
|                      |                | Includes belly meat |                   |   |                   |

### 3.Mangrove Crab Fishery Data Request Form

|   |                |                      |                   |                 |                   |
|---|----------------|----------------------|-------------------|-----------------|-------------------|
| Date of request   |                | Date required        |                   |                 |                   |
| Organisation name   |                | Contact Person       |                   |                 |                   |
| Contact email   |                | Contact phone number |                   |                 |                   |
| Select the province for which you want the data (with a cross): |                |                      |                   |                 |                   |
| Papua Barat   |                |                      |                   |                 |                   |
| Requested data range (in years):                                |                |                      |                   |                 |                   |
| Give a cross to mark each data point that interests you         |                |                      |                   |                 |                   |
| <i>Trip summary</i>   |                | <i>Bait</i>          |                   | <i>Bycatch</i>  |                   |
| <i>Data point</i>   | <i>Request</i> | <i>Data point</i>    | <i>Data point</i> | <i>Request</i>  | <i>Data point</i> |
| Landing site  |                | Category             |                   | Species         |                   |
| Name of fisherman   |                | Species              |                   | Number of catch |                   |
| Fishing grounds   |                | Local name           |                   | Total weight    |                   |
| Fishing gears   |                | Fishing grounds      |                   |                 |                   |
| Sampling date   |                | Total bait           |                   |                 |                   |
| Sampling time   |                | Extimated bait       |                   |                 |                   |
| Range of time   |                | Gear to catch bait   |                   |                 |                   |
| Total weight  |                |                      |                   |                 |                   |
| Total number  |                |                      |                   |                 |                   |
| Boat length   |                |                      |                   |                 |                   |
| Boat capacity (GT)  |                |                      |                   |                 |                   |
| Engine capacity (PK)  |                |                      |                   |                 |                   |
| Others  |                |                      |                   |                 |                   |
| <i>Subsampling (max. 20 crabs)</i>                              |                |                      |                   |                 |                   |
| <i>Data point</i>   | <i>Request</i> |                      |                   |                 |                   |
| Width   |                |                      |                   |                 |                   |
| Sex   |                |                      |                   |                 |                   |
| Level of maturity   |                |                      |                   |                 |                   |
| Weight  |                |                      |                   |                 |                   |
|   |                |                      |                   |                 |                   |
|   |                |                      |                   |                 |                   |
|   |                |                      |                   |                 |                   |
|   |                |                      |                   |                 |                   |
|   |                |                      |                   |                 |                   |

#### 4.Snapper and Grouper Fishery Data Request Form

|   |                |                      |                     |                   |                |
|---|----------------|----------------------|---------------------|-------------------|----------------|
| Date of request   |                | Date required        |                     |                   |                |
| Organisation name   |                | Contact Person       |                     |                   |                |
| Contact email   |                | Contact phone number |                     |                   |                |
| Select the province for which you want the data (with a cross): |                |                      |                     |                   |                |
| Maluku  | Maluku Utara   | Nusa Tenggara Barat  | Nusa Tenggara Timur |                   |                |
| Sulawesi Selatan  | Sulawesi Utara | Papua Barat          |                     |                   |                |
| Requested data range (in years):                                |                |                      |                     |                   |                |
| Give a cross to mark each data point that interests you         |                |                      |                     |                   |                |
| <i>Data point</i>   | <i>Request</i> | <i>Data point</i>    | <i>Request</i>      | <i>Data point</i> | <i>Request</i> |
| Boat name   |                | Species              |                     | Spot Trace Number |                |
| Fishing gear  |                | Whole length         |                     | Identification    |                |
| Catch date  |                | FMA/WPP1             |                     | Sizing            |                |
| Landing date  |                | FMA/WPP2             |                     | Check             |                |
| Picture number  |                | FMA/WPP3             |                     | Longitude         |                |
| Family  |                | Other catch areas    |                     | Latitude          |                |
| Genus   |                |                      |                     |                   |                |

### **5. Time Lapse Camera Fishery Data Request Form**

|   |                |                                  |                     |                               |                |
|---|----------------|----------------------------------|---------------------|-------------------------------|----------------|
| Date of request   |                | Date required                    |                     |                               |                |
| Organisation name   |                | Contact Person                   |                     |                               |                |
| Contact email   |                | Contact phone number             |                     |                               |                |
| Select the province for which you want the data (with a cross): |                |                                  |                     |                               |                |
| Maluku  | Maluku Utara   | Nusa Tenggara Barat              | Nusa Tenggara Timur |                               |                |
| Sulawesi  | Sulawesi Utara | Papua Barat                      |                     |                               |                |
| Requested data range (in years):                                |                |                                  |                     |                               |                |
| Give a cross to mark each data point that interests you         |                |                                  |                     |                               |                |
| <i>Trip Summary</i>   |                | <i>ETP</i>                       |                     | <i>Tuna and other bycatch</i> |                |
| <i>Data point</i>   | <i>Request</i> | <i>Data point</i>                | <i>Request</i>      | <i>Data point</i>             | <i>Request</i> |
| File name TLC   |                | Type of ETP interacted with      |                     | Species                       |                |
| Landing site  |                | Species                          |                     | Number                        |                |
| VIC code  |                | Location                         |                     | FAD                           |                |
| Trip starting date  |                | Dead                             |                     | Catching time                 |                |
| Landing date  |                | Alive                            |                     |                               |                |
| Trip starting time  |                | Released                         |                     |                               |                |
| Landing time  |                | Catched                          |                     |                               |                |
| Length of trip  |                | Fishing gear interacted with ETP |                     |                               |                |
| Length of days fishing  |                |                                  |                     |                               |                |
| Number of FAD being visited                                     |                |                                  |                     |                               |                |
| Other fishing gear onboard                                      |                |                                  |                     |                               |                |

**6. Spot Trace Fishery Data Request Form**

|   |                  |                                    |                     |
|---|------------------|------------------------------------|---------------------|
| Date of request   |                  | Date required                      |                     |
| Organisation name   |                  | Contact Person                     |                     |
| Contact email   |                  | Contact phone number               |                     |
| Select the province for which you want the data (with a cross): |                  |                                    |                     |
| Maluku  | Maluku Utara     | Nusa Tenggara Barat                | Nusa Tenggara Timur |
| Sulawesi Utara  | Sulawesi Selatan | Papua Barat                        |                     |
| Requested data range (in years):                                |                  |                                    |                     |
| Give a cross to mark each data point that interests you         |                  |                                    |                     |
| <i>Trip Summary</i>   |                  | <i>Location</i>                    |                     |
| <i>Data point</i>   | <i>Request</i>   | <i>Data point</i>                  | <i>Request</i>      |
| VIC code  |                  | Coordinate point                   |                     |
| Landing site  |                  | Date                               |                     |
| Installation date   |                  | Grid map                           |                     |
| Return date   |                  | File integrated data port sampling |                     |

### 7. Purse Seine Small Pelagic Data Request Form

| Date of request   |                  | Date required  |                     |                               |                |
|---|------------------|--|---------------------|-------------------------------|----------------|
| Organisation name   |                  | Contact Person   |                     |                               |                |
| Contact email   |                  | Contact phone number   |                     |                               |                |
| Select the province for which you want the data (with a cross): |                  |  |                     |                               |                |
| Maluku  | Maluku Utara     | Nusa Tenggara Barat  | Nusa Tenggara Timur |                               |                |
| Sulawesi Utara  | Sulawesi Selatan | Papua Barat  |                     |                               |                |
| Requested data range (in years):                                |                  |  |                     |                               |                |
| Give a cross to mark each data point that interests you         |                  |  |                     |                               |                |
| <i>Trip summary</i>   |                  | <i>Information on Fishing gear</i>                                 |                     | <i>Sampling of main catch</i> |                |
| <i>Data point</i>   | <i>Request</i>   | <i>Data point</i>  | <i>Request</i>      | <i>Data point</i>             | <i>Request</i> |
| Landing site  |                  | Material   |                     | Basket code                   |                |
| Origin  |                  | Length of upper ris rope   |                     | Sampling weight               |                |
| Tonnage measurement number                                      |                  | Depth of fish net  |                     | Species                       |                |
| Andon boat  |                  | Size of fish net   |                     | Length                        |                |
| Use of FAD  |                  | Setting time   |                     |                               |                |
| Number of hold/palka  |                  | Setting number   |                     |                               |                |
| Capacity of hold/palka  |                  | Successful setting   |                     |                               |                |
| Capacity of boat  |                  | Technic to identify fish   |                     |                               |                |
| Length of boat  |                  | <b>Information on tuna catch &gt;10 kg from other catch device</b> |                     |                               |                |
| Material of boat  |                  | Species  |                     |                               |                |
| Capacity of main engine   |                  | Length   |                     |                               |                |
| Capacity of secondary engine                                    |                  | Weight   |                     |                               |                |
| Supporting boat   |                  | <b>Summary per catch category</b>                                  |                     |                               |                |
| Size of supporting boat   |                  | Basket code  |                     |                               |                |
| Sampling date   |                  | Quality code   |                     |                               |                |
| Sampling time   |                  | Species  |                     |                               |                |
| Number of days fishing  |                  | Description  |                     |                               |                |
| Length of trip  |                  | Total weight   |                     |                               |                |
| Visited rumpon  |                  |  |                     |                               |                |
| Successful FAD  |                  |  |                     |                               |                |
| Ice Consumption   |                  |  |                     |                               |                |
| GPS   |                  |  |                     |                               |                |
| GPS merk/brand  |                  |  |                     |                               |                |
| Fuel consumption  |                  |  |                     |                               |                |
| Light   |                  |  |                     |                               |                |
| Fishing grounds   |                  |  |                     |                               |                |
| Estimated of catch not unloaded                                 |                  |  |                     |                               |                |

|                    |  |  |  |  |  |
|--------------------|--|--|--|--|--|
| Main fishing gear  |  |  |  |  |  |
| Other fishing gear |  |  |  |  |  |