

Best Standards for Data Collection on FOBs: Towards a Science Based FOB fishery management

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Objective

General Objective:

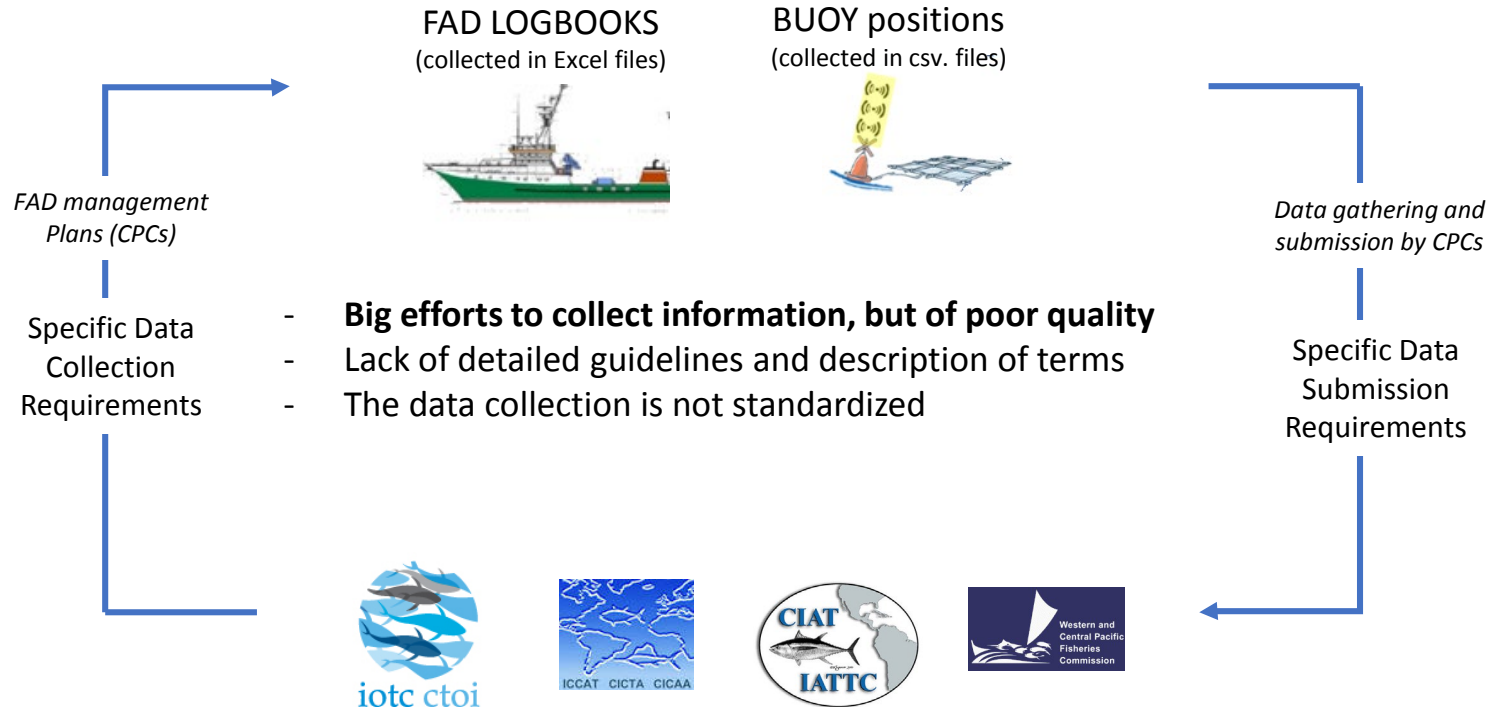
- Development of data collection protocols and tools for FAD/FOBs management plans

Specific Objectives:

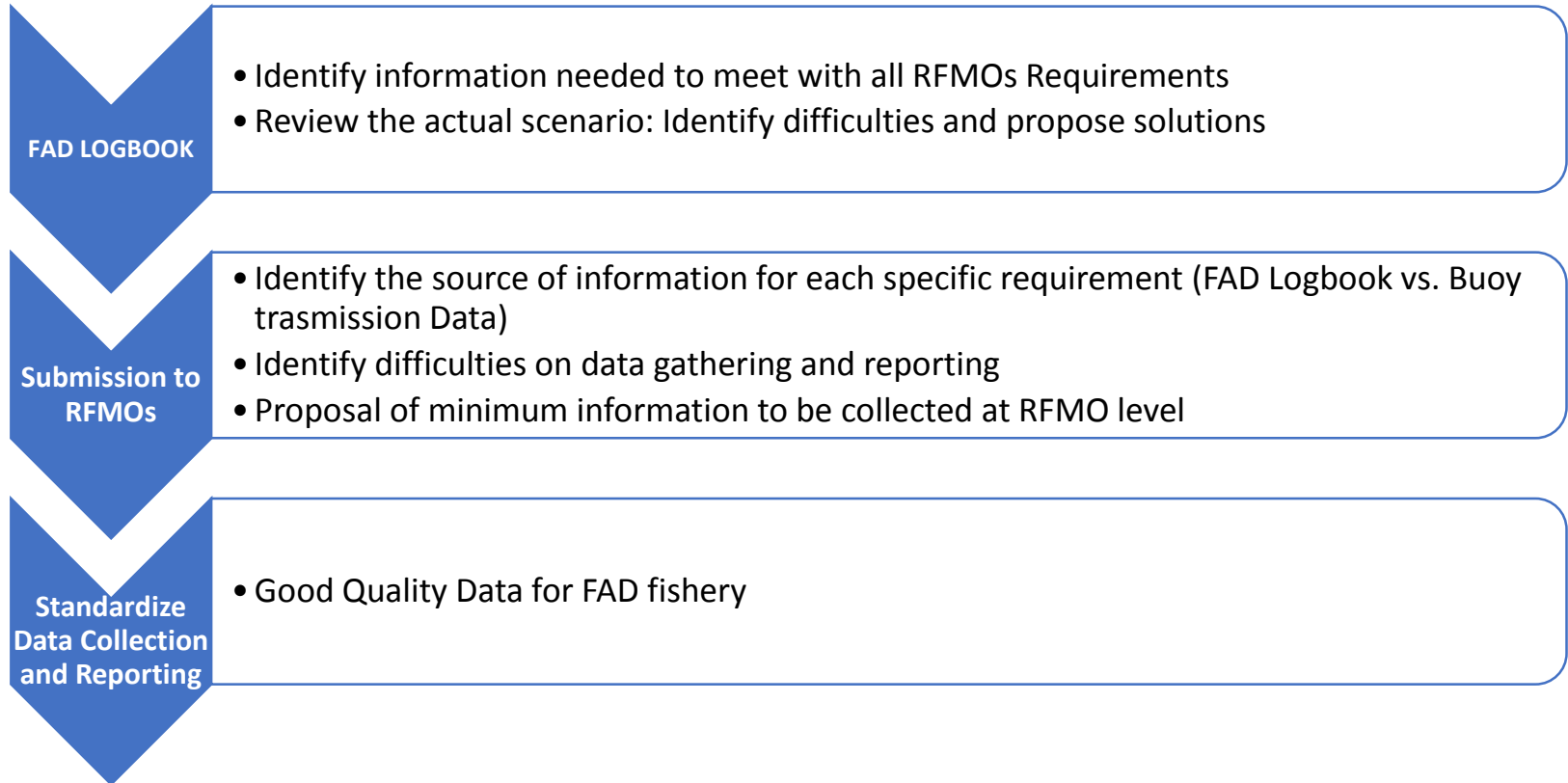
- Revision of data requirements for the different tuna RFMOs
- Identify data gaps and propose best standards for data Collection and reporting on *FOBs* to RFMOs.
- Development of a standardize *FOBs* data collection tool

Context

Information on FOBs



Working Scheme



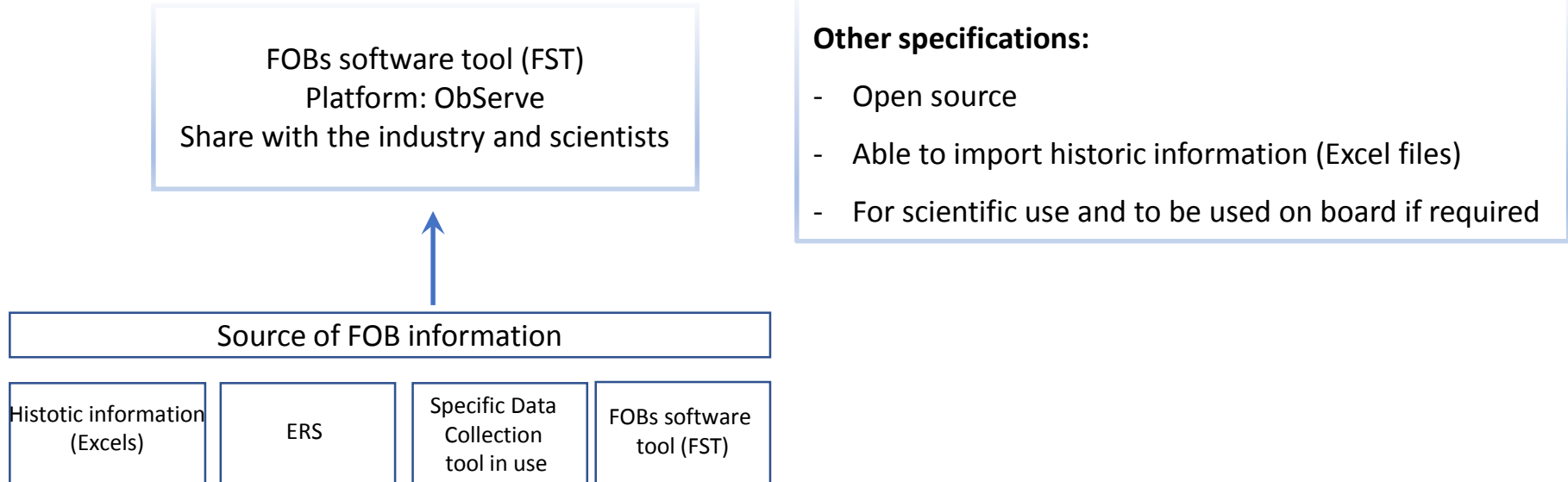
Best Standards for Data Collection



- Data to give response to all RFMOs
- Information on **FOBs** (FADs and other floating objects)
- **Format** of the data collection form (FOB-Logbook): A simple data collection tool, adapted to the use on board.
- **Identification:** Vessel and trip ID
 - Buoy [ID of the manufacturer and owner]
 - FAD ID [Given by the buoy ID]
- **Seasonal and spatial dynamics:** Date, Time [GMT], position of each activity
- **FOB Type:** CECOFAD categories or enough information for posterior classification on CECOFAD categories.
- **FOB structure:** Floating structure dimension [aaxbb]; Depth of the Hanging Structure [m];
 - Materials [NE character given by the mesh size and configuration; and nature of materials]
- **Activity with FOB and buoys** [CECOFAD categories] or enough information to posterior classification on CECOFAD categories.
- **Catch:** Target species [tn, Destiny = retained, discarded]
 - Bycatch [nº or tn, Destiny = retained, discarded, released in case of sensitive species]

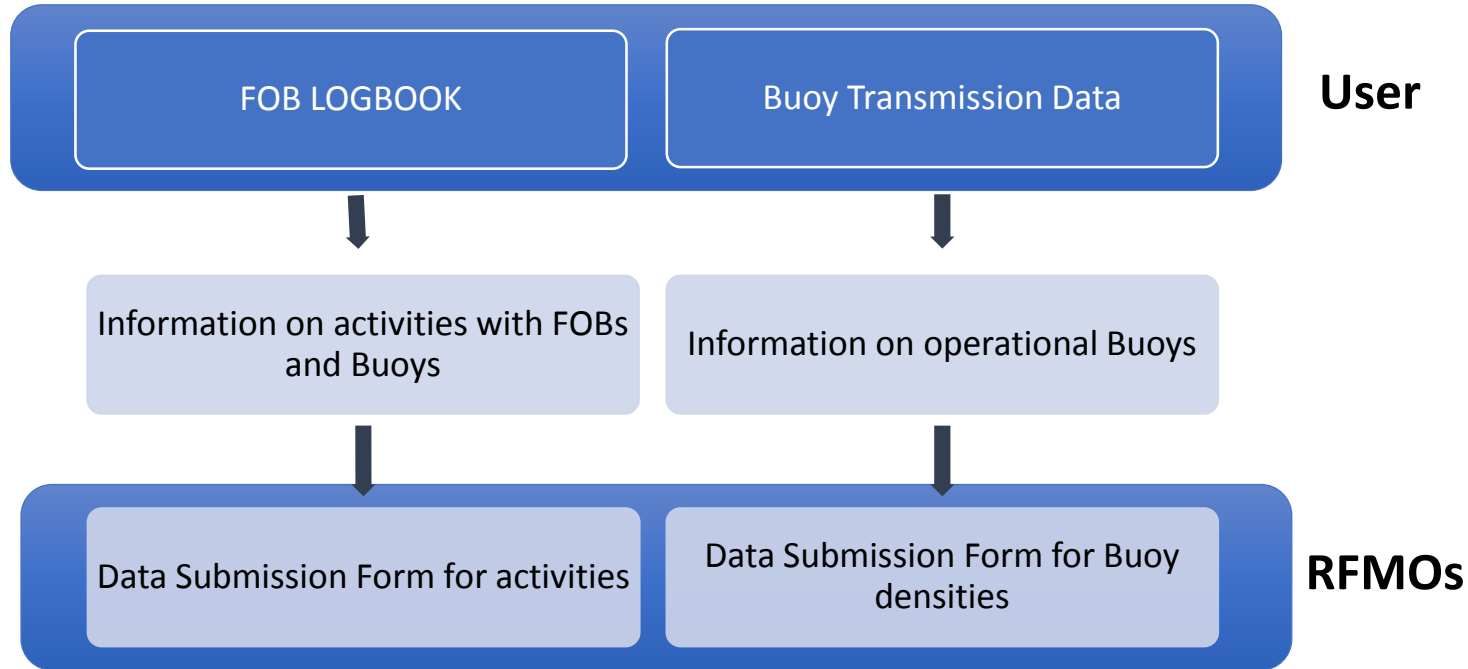
Best Standards for Data Collection: Next step

- Development of a Data Collection tool for scientific use



Best Standards for data submission to RFMOs

- Identification of the source of the data



Best Standards for data submission to RFMOs

- **Data submission Form format:** An specific data submission form according to the data source:
 - Buoy density [Buoy transmissions]
 - Activities with FOBs and buoys [FOB Log-Books]
- **Seasonal and spatial dynamics:** Grid Size [$1^{\circ} \times 1^{\circ}$], Time scale [monthly basis]
- **Activities with FOB and buoys:** Information extracted from Log-books – CECOFAD categories are proposed
- **Buoy density** [information extracted from buoy transmissions]
 - Year
 - Month
 - CPC
 - Number of vessels
 - Latitude [decimal degree]
 - Longitude [decimal degree]
 - Average number of active FADs

Best Standards for Reporting Requirements to RFMOs

Example adopted in ICCAT

- Buoy Density – Information from Buoys Transmission Data - Grid Size [1°x1°], Time scale [monthly basis]

Flag of vessel (cod)	Month	Latitude (+N/-S)	Longitude (+E/-W)	Nº Active Vessels	FAD type (cod)	Beacon/buoy type (cod)	Avg Number Operating FADs	Remarks
FlagVesCd	Month	Lat	Lon	NoVessels	FadTypeCd	BeaconTypeCd	AvgNOperatFADs	Remarks

- Information on FOBs – information from FOB log-books
 - Grid Size [1°x1°], Time scale [monthly basis].
 - CECOFA categories

Vessel attributes				Deployment (NEW FADs) details by vessel/month/1x1					Losses & Transfers by		
ICCAT Serial number	Vessel Name	Vessel type (cod)	Flag of vessel (cod)	Month	Latitude (+N/-S)	Longitude (+E/-W)	FAD type (cod)	Beacon/buoy type (cod)	Nº FADs deployed	Nº FADs lost	Nº FADs transferred (from other vessels)
ICCATSerialNo	VesselName	VessTypeCd	FlagVesCd	Month	Lat	Lon	FadTypeCd	BeaconType	NoFADsDep	NoFADsLost	NoFADsTransf

Concluding remarks

- Further work should be conducted in harmonization of data collection on FOBs among RFMOs.
- Data collection tool (FOB Logbooks) should be adapted to the use on board:
 - Simple data collection tool
 - Unique identifier given by the Buoy ID
- CECOFAAD categories for activities and FOB type, are proposed.
- Data submission forms to RFMOs be adapted to the data source:
 - Information on FOB/Buoys densities → Buoy transmissions data.
 - Information on activities → FOB logbook