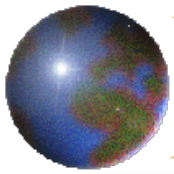


REVIEW of MONITORING, CONTROL AND SURVEILLANCE (MCS) MEASURES BY TUNA RFMOs

**JOINT TUNA RFMOs MEETING
MCS WORKSHOP**

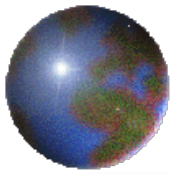
Masanori Miyahara, JAPAN



Terms of Reference for MCS Workshop

Standardization and Harmonization of :

- Vessel Monitoring System (VMS)
- Observer Program
- Transshipment Control
- Monitoring Catches from Catching Vessel to Market



VMS Requirement

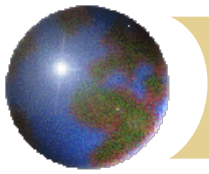
	ICCAT	IOTC	IATTC	WCPFC	CCSBT
Application					√ *1
Area					
Convention area	√		√		
High seas		√		√	
Fishing vessel				All	
≥24m	√ *2		√		
≥15m	√ *3	√			
System					√ *1
Centralized	√ *4			√	
Frequency					
6hours	√		√		
4hours		√		√	
Format for communication defined	√				

*1 VMS adopted in accordance with other tuna-RFMOs' measures.

*2 All fishing vessel except Eastern Atlantic BFT

*3 Eastern Atlantic BFT fisheries including all size of tug and towing boats.

*4 Eastern Atlantic BFT fishing vessels only



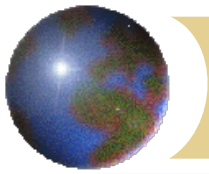
Centralized Center of VMS: Merit and Demerit

Merit:

- Facilitates timely use of VMS data for promotion of monitoring and enforcement activities
- Unnecessary to maintain VMS centers in each CPC
- Ensures consistency, quality and transparency of VMS data

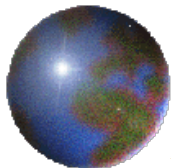
Demerit:

- Needs more financial contribution from members
- Needs special arrangements to ensure confidentiality requirements



Observer Programs

- Regional Observer Program (ROP)
 - Programs implemented directly by RFMOs
 - ICCAT (BFT), IATTC (Dolphin)
 - Programs implemented by Parties under schemes agreed at RFMOs
 - IOTC (High seas fisheries & Large-scale fishing vessels)
 - WCPFC(High seas fisheries)
- National Observer Program



Regional Observer Programs (ROP)

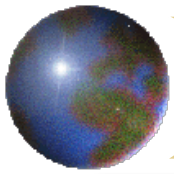
(excluding those for transshipment at sea)

	ICCAT	IOTC	IATTC	WCPFC	CCSBT
Application	BFT fisheries *1	All vessels except artisanal fishery *2	PS \geq 363t	All vessels *3	
Objective					
Compliance	√		√	√	
Science	√	√		√	
Monitoring by observer					
Target species	√	√	√	√	
Farming	√				
By-catch species		√	√	√	

*1 Eastern Atlantic BFT fisheries only ; (a)PS \geq 24m, (b)Vessels engaged in joint fishing operation, (c)Caging and Harvesting occasions

*2 To start from July 2010, All vessels on high seas, Vessels \geq 24m in EEZ, Field samplers introduced into IOTC ROP scheme

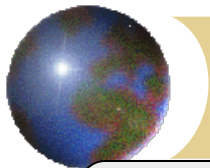
*3 High seas only; The implementation schedule of small vessel, troll and pole-and-line to be considered.



Minimum Standard of ROP

What's minimum standard ?

- Role of observers
data recording and reporting, sampling, validation of catch document...
- Data Collection by observers
catch, by-catch, catch area and date, fishing effort, size, biological sample...
- Qualifications and Training program of observers
- Observer coverage
- ...



Observer Coverage (ROP)

(except those for transshipment at sea)

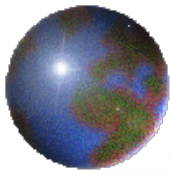
	ICCAT	IOTC	IATTC	WCPFC	CCSBT
Application	BFT fisheries *1	All vessels except artisanal fishery *2	PS $\geq 363t$	(a) PS operating between latitude N20 and S20 *3 (b) Other vessels *3	
Coverage	100%	5% (number of operations)	100% *4	(a) 100% (b) 5% (fishing effort or number of voyages)	
Objective	Compliance and science	Science	Compliance	Compliance and Science	

*1 Eastern Atlantic BFT fisheries only ; (a)PS $\geq 24m$, (b)Vessels engaged in joint fishing operation, (c)Caging and Harvesting occasions

*2 To start from July 2010, All vessels on high seas, Vessels $\geq 24m$ in EEZ, Field samplers introduced into IOTC ROP scheme

*3 High seas only; The implementation schedule of small vessel, troll and pole-and-line to be considered.

*4 at least 50% is Regional, the rest is National



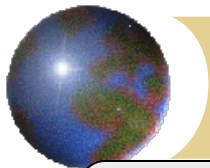
Observer Coverage (National Observers)

(except those for transshipment at sea)

	ICCAT	IOTC	IATTC	WCPFC	CCSBT
Application & Coverage	BFT fishery; basically 20% *1 Other fisheries; basically 5% - 8% to 10% applied based on fishing type *2				SBT; 10%
Objective	Compliance and science				Science

*1 Eastern Atlantic BFT fishing vessels only ; BFT Trap is 100%

*2 BET, Billfish fishing and chartered fishing vessel



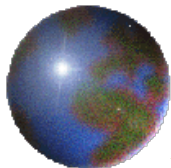
Transshipment Control for Large scale Long-line Vessels (At Sea) *1,2

	ICCAT	IOTC	IATTC	WCPFC	CCSBT
How to monitor fishing vessels					
Authorization by flag state	√	√	√	√	√
Transshipment declaration					
To Secretariat				√	
To flag state	√	√	√		√
Temporary boarding on fishing vessels by regional observers on board carriers *3		√	√	√	√
How to monitor carrier vessels					
Transshipment declaration					
To Secretariat	√	√	√	√	√
To flag state of fishing vessel	√	√	√		√
To state where the landing take place	√	√	√		√
Regional observer on board	√	√	√	√	√
VMS requirements	√	√	√	√	√

*1 100% transshipment observer needed.

*2 Transshipment except large scale long-line vessels prohibited.

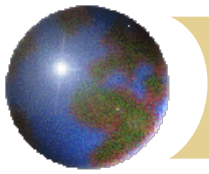
*3 Significant risk for safety of observers



Transshipment Control (In port)

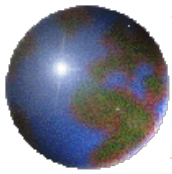
	ICCAT	IOTC	IATTC	WCPFC	CCSBT
How to monitor fishing vessels					
Prior notification to port state	√	√	√		
Prior notification to flag state	√	√	√		
Transshipment declaration					
To flag state	√	√	√		
How to monitor carrier vessels					
Prior notification to port state	√	√	√		
Transshipment declaration					
To port state	√	√	√		
To state where the landing take place	√	√	√		
Verification by port state/landing state	√ *	√	√		

* 100% inspection on transshipment of Eastern BFT by port state



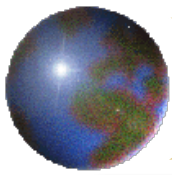
Catch Documentation Scheme (CDS) Statistical Documentation Program (SDP)

	ICCAT	IOTC	IATTC	WCPFC	CCSBT
Bluerfin / Southern Bluefin	CDS				CDS
Bigeye	SDP (exclude fresh and Cannery products)	SDP (exclude fresh and Cannery products)	SDP (exclude fresh and Cannery products)		
Yellow fin					
Albacore					
Swordfish	SDP				

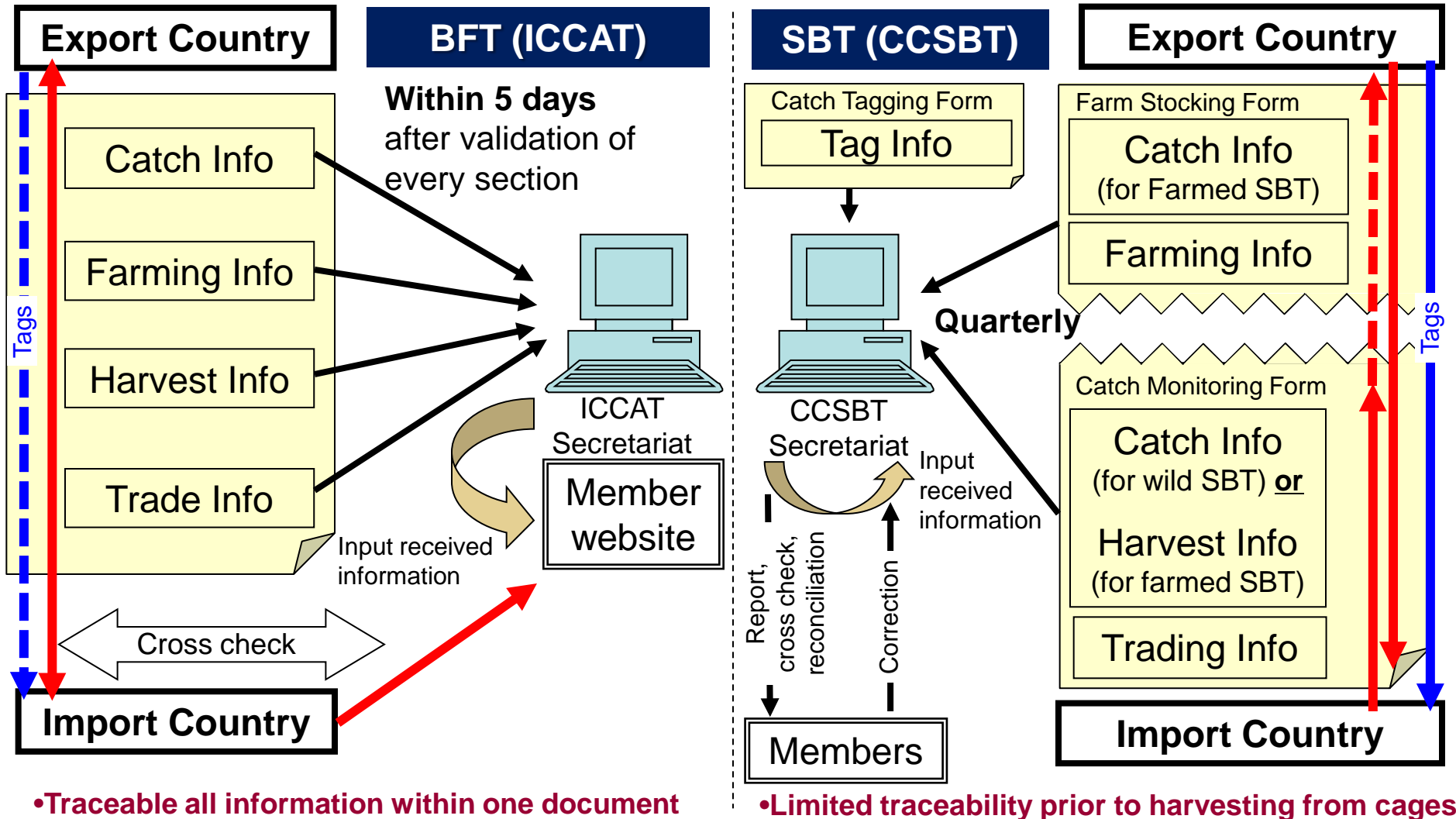


Comparison of CDS between ICCAT and CCSBT

		BFT CDS (ICCAT)	SBT CDS (CCSBT)	Reference: BET,SDP (ICCAT,IOTC,IATTC)
Catch Information		√	√	√
	Validation	√	√	
Live fish trade information		√		
	Validation	√		
Transshipment Information		√	√	
	Validation	√	√	
Farming information		√	√	
	Caging Validation	√	√	
	Harvesting Validation	√	√	
Trade information		√	√	√
	Validation	√	√	√



Comparison of CDS between ICCAT and CCSBT II





Thank you