



The Special Training/Workshop on Stock Assessments of Longtail tuna and
Kawakawa in the Southeast Asian Region”

17 - 25 April 2016

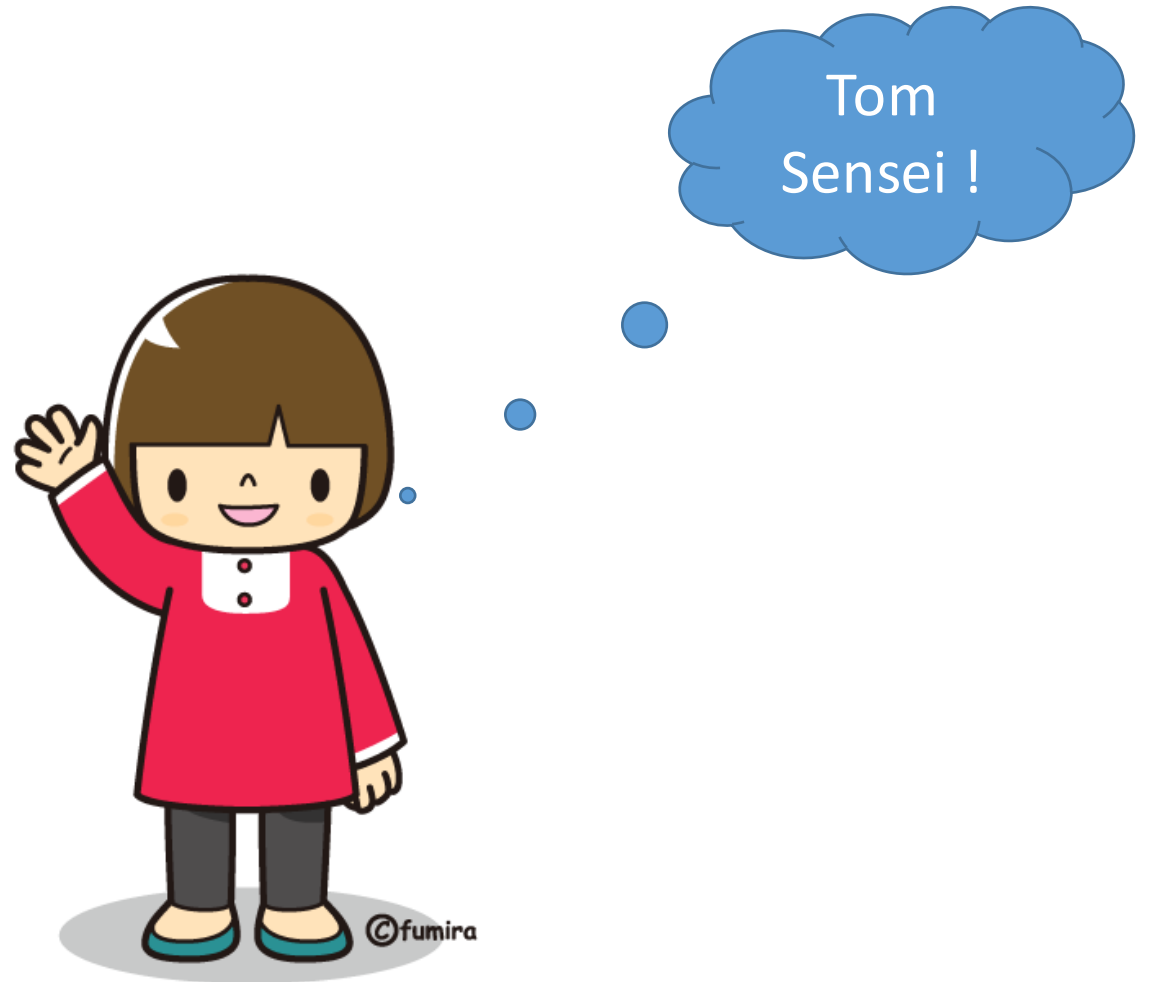
SEAFDEC/MFRDMD in Kuala Terengganu, Malaysia

April 17 (Sun) 0920-1020

Orientation

This is not formal meeting.. Feel free to ask..

Please raise you hands and ask questions for discussion, so that other participants and instructors will also understand and learn further in depth.



Contents

1. Self-introduction
2. Backgrounds
3. Objectives
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1. Self introduction

- ONE CORE participant per country.
- Observers
- Organizers (SEAFDEC HQs and SEAFCEC/MFRDMD)
- Resources persons

1. Self- Introduction (to know each other well)

For ALL

- Names, Country, Agency name
- Specialty

For (core) trainees (6 countries)

- **What do you expect in training and workshop ?**
- Level of English
- Your duties in details
- Experiences of CPUE standardization and stock assessments

Who is the (crazy) instructor (Tom Nishida)? self introduction



Profile

- Made in Japan
(but father made in USA → Hilo, Hawaii)
- Retired scientists → Associate Scientist
- National Research Institute of Far Seas Fisheries (NRIFSF)
- Fisheries Research Agency (FRA)
- Tuna and demersal fish stock assessments

Backgrounds

- BS University of Hokkaido (Oceanography)
- BS Univ. of Washington (Stock assessments)
- MS Univ. of Washington (Stock assessments)
- PhD Tokyo University
 - ➔ Indian Ocean yellowfin tuna
stock assessments

Work experiences

University of Washington (USA)

(Research assistant)(salmon)

BOBP+FAO(Sri Lanka)

(Fisheries statistician) (Indian Ocean)

National Research Institute of Far Seas Fisheries (Japan)

Indian Ocean (IOTC)

Tuna, Billfish, neritic tuna stock assessments

+

Atlantic Ocean (NAFO+SEAFO)+ Indian (SIOFA)

Demersal fish Management

Important : 2 way talk (instructor vs. participants)
(not to baby nor between wrestlers)



2. Background (1)

SEAFDEC neritic tuna stock assessments project

- 1st Meeting (Selangor, Malaysia) (November, 2014)
SWG (Scientific Working Group) established
(8 member countries)
- 2nd Meeting (Hai Phong, Viet Nam) (June 2015).

2. Background (2) 2nd meeting agreed

- ASPIC for Kawakawa+Longtail tuna
as a first step to evaluate their stock statuses.
 - Two stocks hypothesis (Indian and Pacific stock)
for each species.
- ➔ 4 stock assessments need to be conducted.
- ➔ For Training purpose

Background

Why longtail and Kawakawa were selected ?

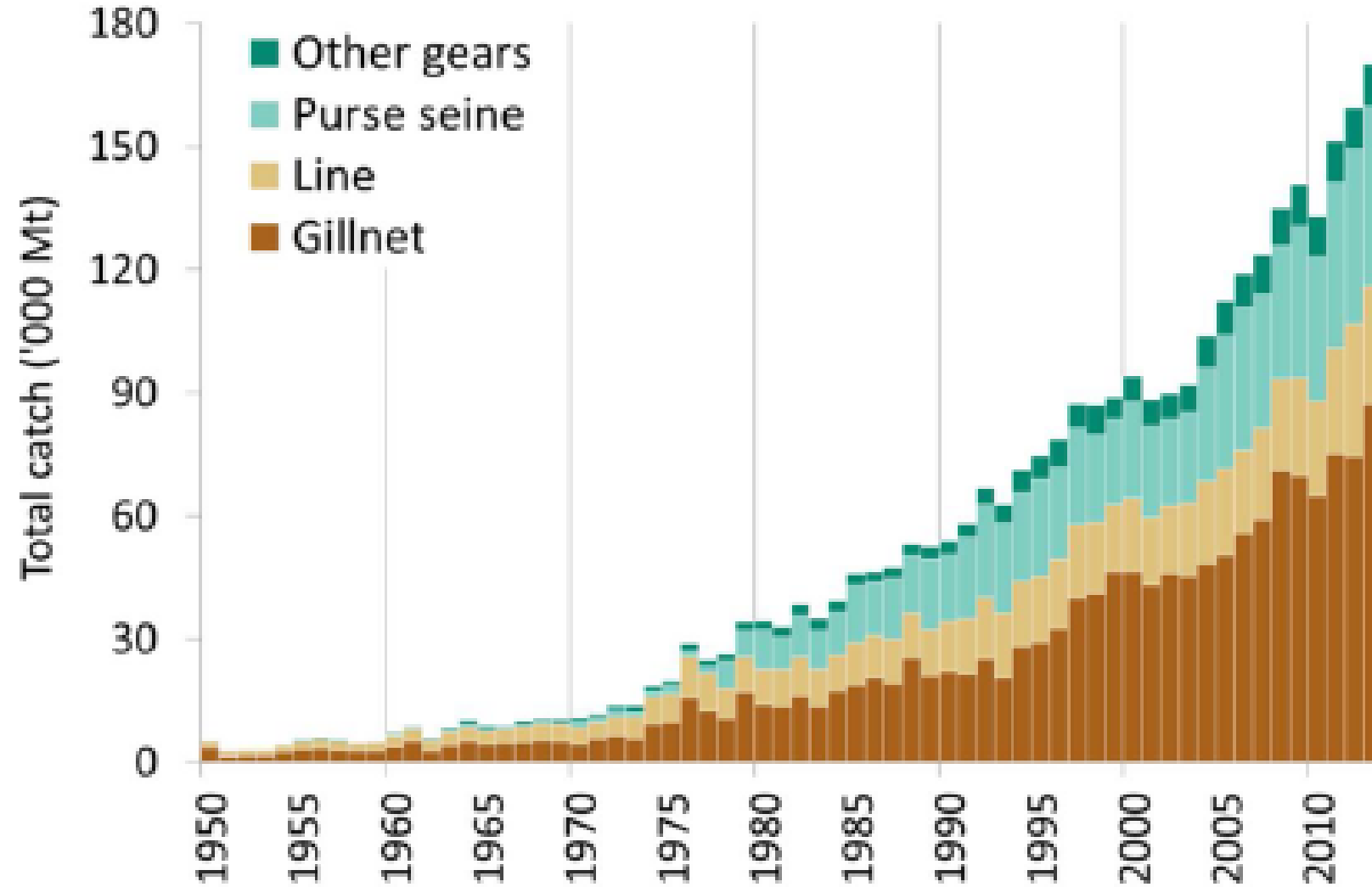
Important food resources in the SE Asia (for a long time)(BOBP+IPTP)

High catch : important for industry (commercially important)

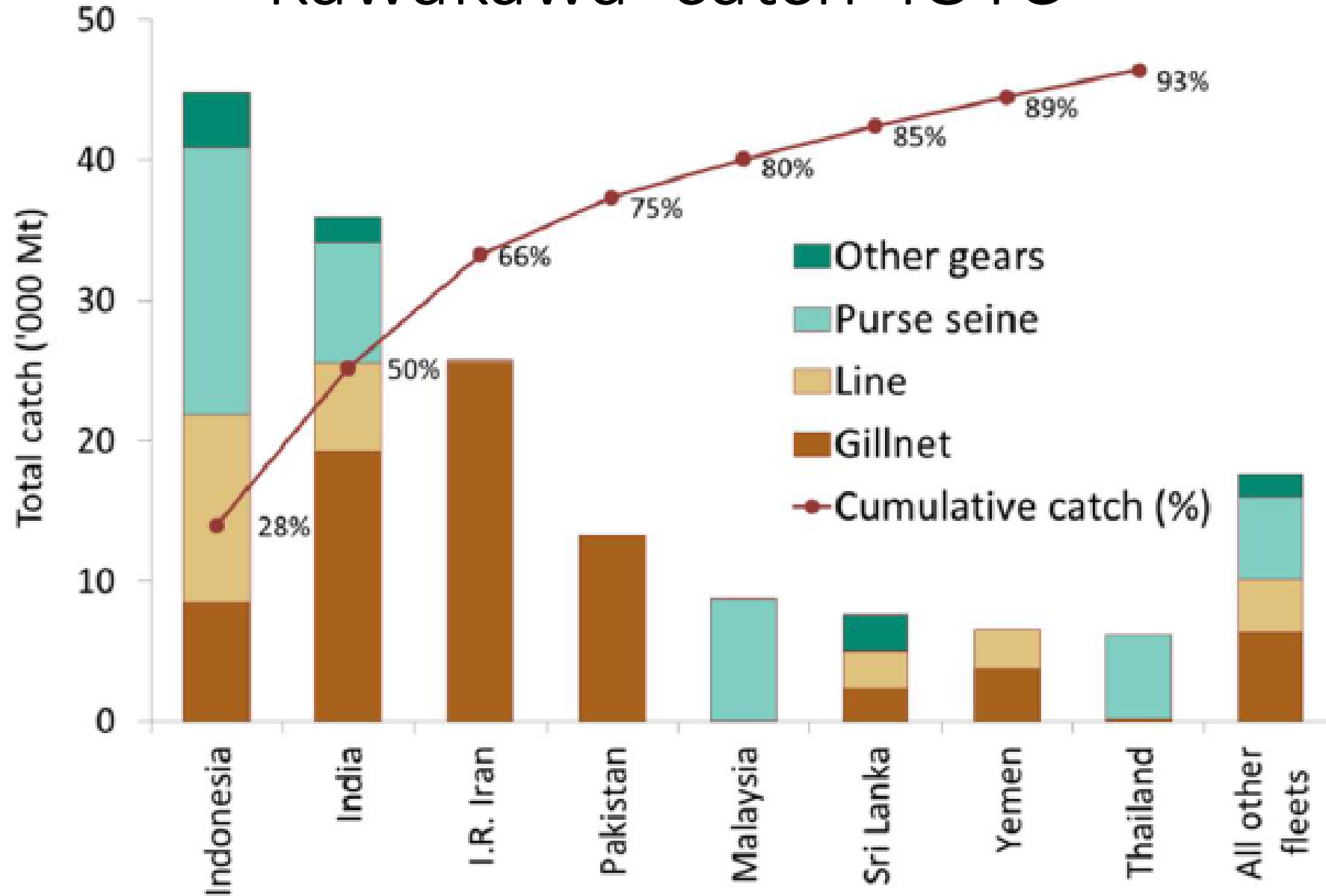


We concern their Stock status

Kawakawa catch IOTC

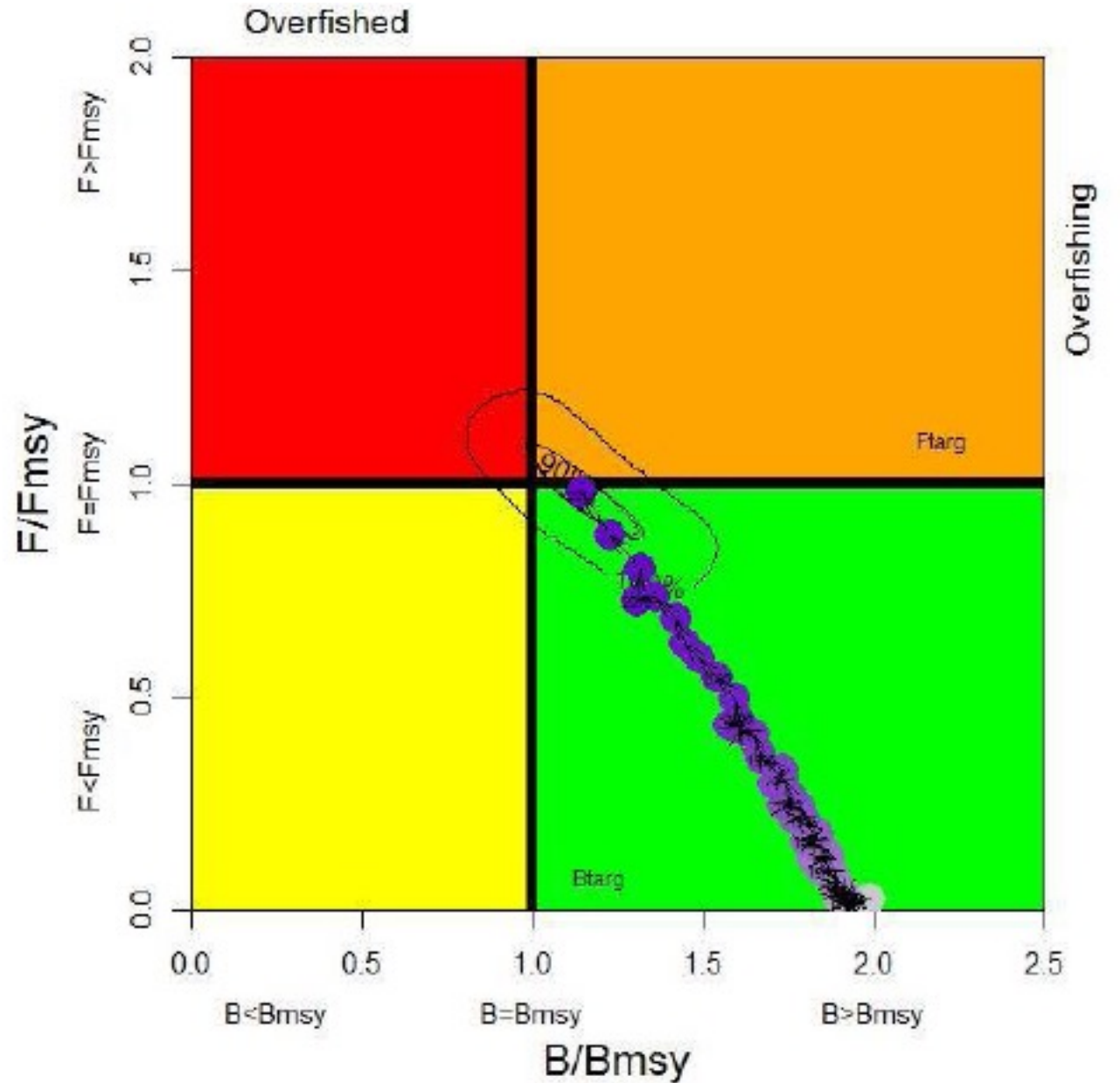


Kawakawa catch IOTC

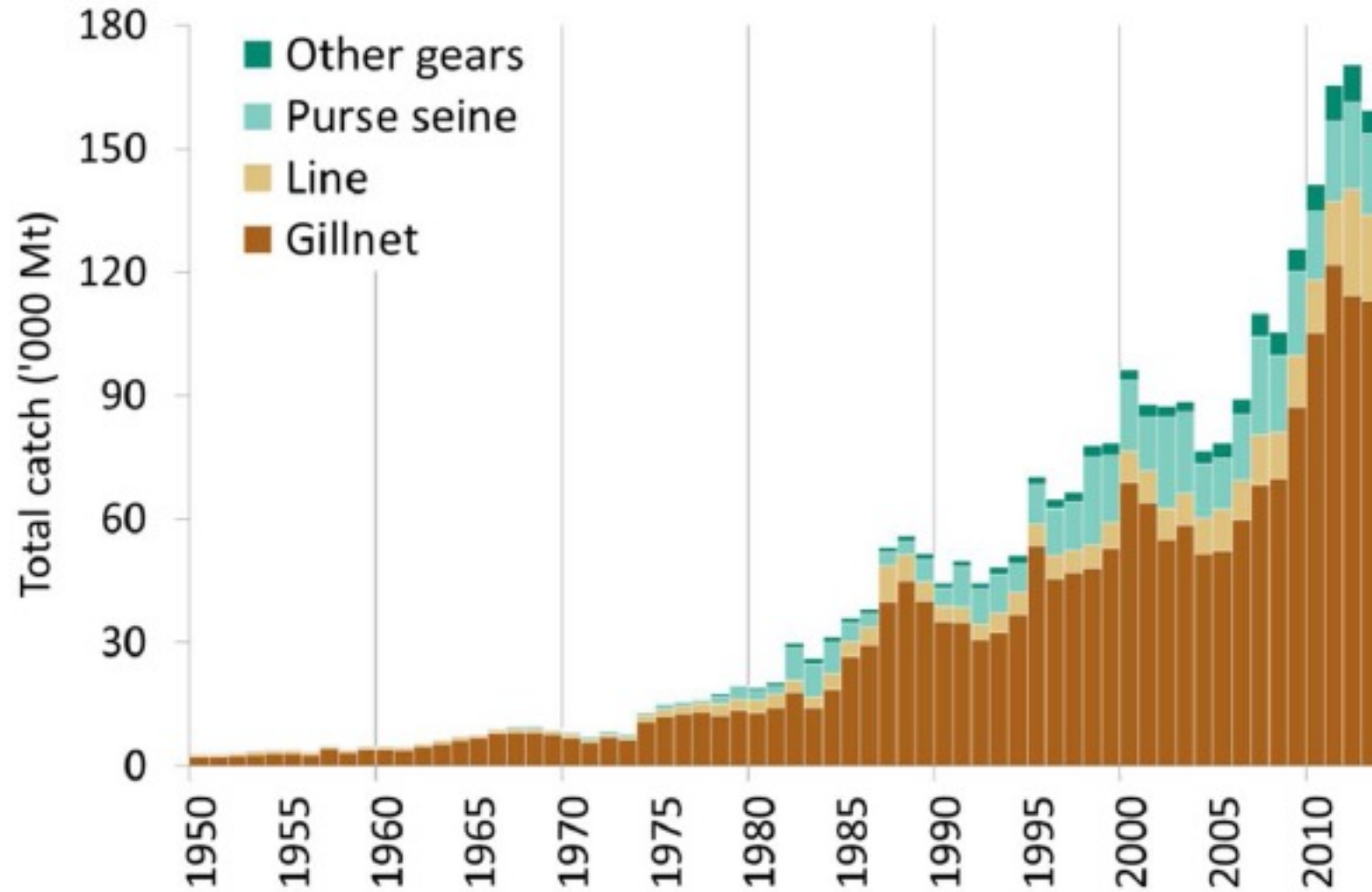


Kawakawa
IOTC (Marten et al)

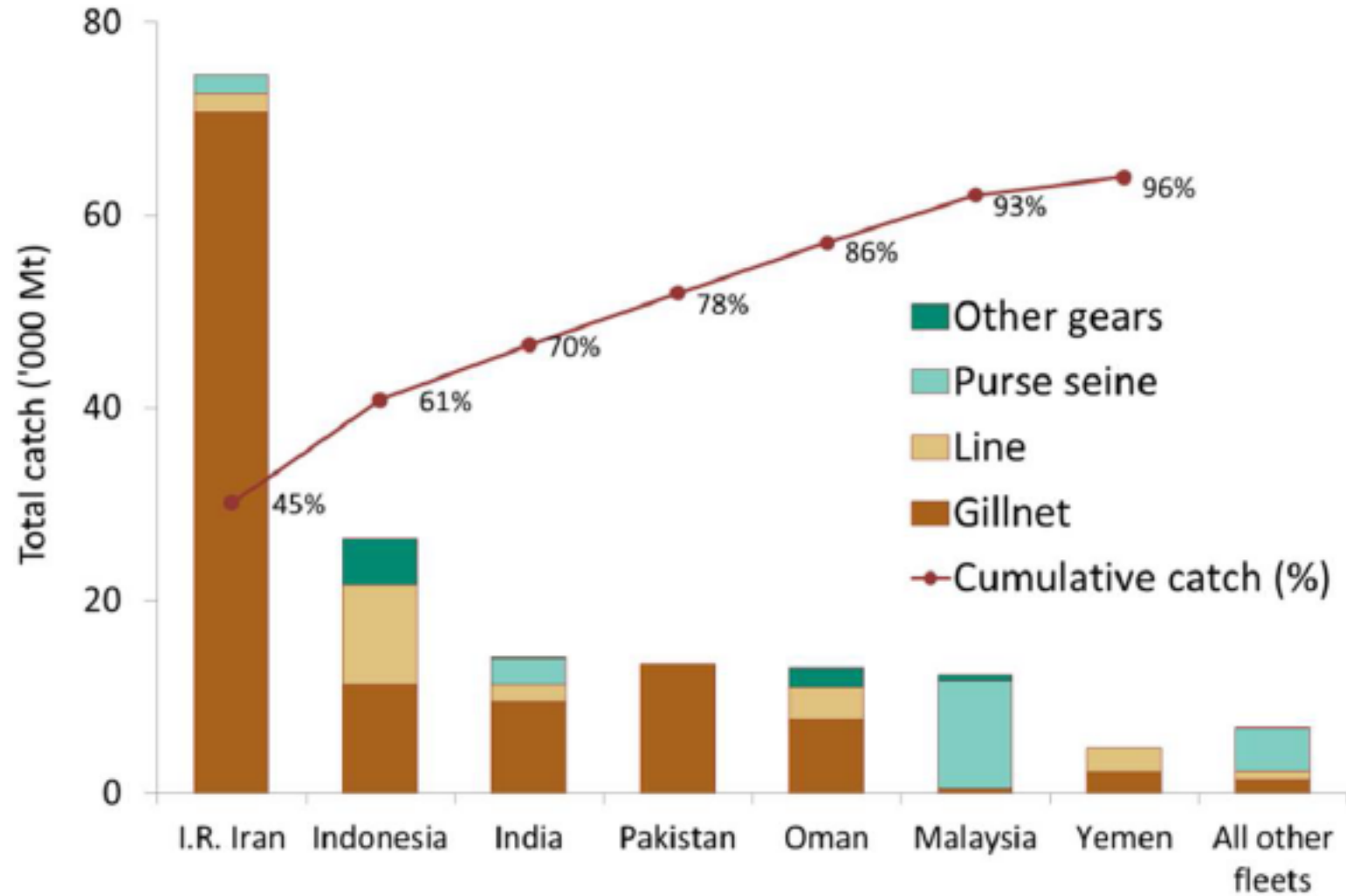
Green (safe) zone
but very close to
Orange (unsafe)
zone



Longtail catch IOTC

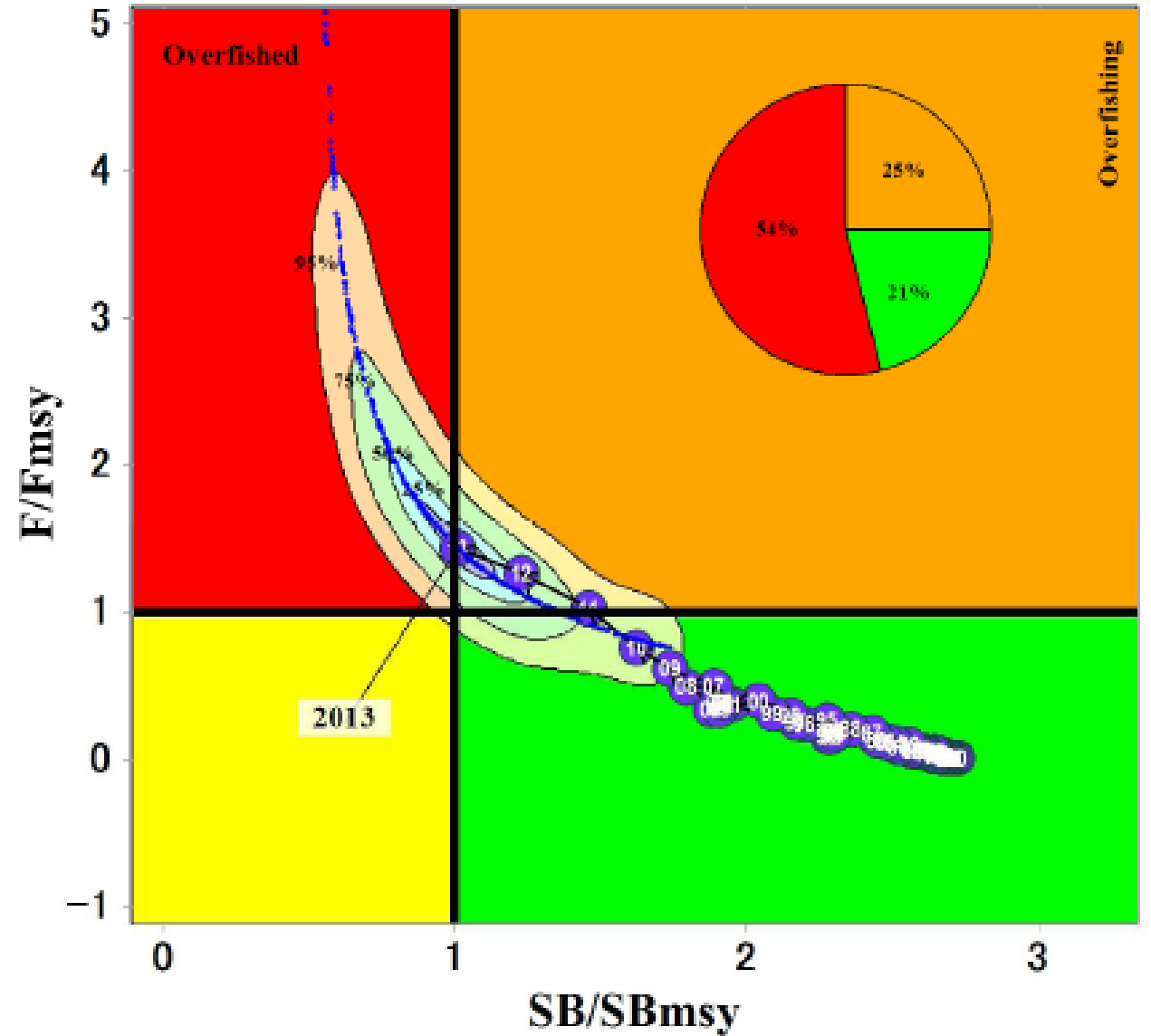


Longtail catch IOTC



Longtail tuna IOTC (Nishida et al) (2015)

red (unsafe) zone
F is very high



3. Objectives (Kawakawa and Longtail tuna in SE Asia) (1)

- To learn
 - Biology and Ecology
 - Data process (CPUE standardization + stock assessments)
 - CPUE standardization
 - Stock assessments (ASPIC)
 - Kobe Plot (Management tool)
- To enhance
 - Discussion and Presentation skill






















3. Objectives (very important) (2)

- **Style of the training: Training of Trainer style**
 - One core person from each country.
 - Core persons will be trained to learn all materials as perfect as possible, so that they can train same materials to their colleagues in their home countries.
- ➔ **focus ONLY for core person**

Observers ➔ self learning

4. List of training materials (20 items) 4 is not ready (later)

Files will be provided by USB memory stick

	(00) List of training materials (Rev_2) (final)	2016/04/15...	Microsoft Word Document	17 KB
	(00) Orientation	2016/04/16...	Microsoft PowerPoint Presentation	5,957 KB
	(01) Data collection and process	2016/04/16...	Microsoft PowerPoint Presentation	5,416 KB
	(02) (not ready) CPUE standardization (Outline)	2016/04/13...	Microsoft PowerPoint Presentation	1,836 KB
	(03) Manual CPUE standardization by GLM soft	2016/04/15...	Microsoft Word Document	389 KB
	(04) (not ready) ASPIC outline	2016/04/16...	Microsoft PowerPoint Presentation	399 KB
	(05) ASPIC parameter search soft (manual)	2016/04/15...	Microsoft Word Document	449 KB
	(06) ASPIC manual	2016/04/01...	Adobe Acrobat Document	175 KB
	(07) Kobe plot (Manual)	2016/04/01...	Microsoft Word Document	1,915 KB
	(08) (not ready) Kobe plot (PowerPoint)	2016/04/12...	Microsoft PowerPoint Presentation	1,509 KB
	(09) Case study ASPIC (LOT) (IOTC)	2016/04/01...	Microsoft Word Document	1,703 KB
	(10) Case study ASPIC (KAW) (IOTC)	2016/04/01...	Microsoft Word Document	2,619 KB
	(11) Case study (Oman)	2016/04/01...	Microsoft Word 97 - 2003 Document	16,342 KB
	(12) How to install R	2016/04/01...	Microsoft PowerPoint Presentation	100 KB
	(13) Case study (K. Mackerel) (T Tobago)	2013/05/26...	Microsoft PowerPoint 97-2003 Presentati...	1,479 KB
	(14) (not ready) Stock structure	2016/04/16...	Microsoft PowerPoint Presentation	2,180 KB
	(15) Kobe plot case study SC15 report	2013/05/06...	Microsoft PowerPoint 97-2003 Presentati...	3,425 KB
	(16) Case study Albacore (IOTC)	2012/02/26...	Microsoft PowerPoint 97-2003 Presentati...	1,558 KB
	(17) Case study LOT NW IO (CPUE+ASPIC)	2015/02/11...	Microsoft PowerPoint Presentation	1,856 KB
	(18) Oman LOT CPUE	2015/02/09...	Microsoft PowerPoint Presentation	5,990 KB
	(19) GIS	2014/08/25...	Microsoft PowerPoint 97-2003 Presentati...	2,628 KB

4 Software will be provided by USB memory stick
(as it may be difficult to download using the internet in MFRDMD)

- CPUE standardization by GLM (Menu-driven software)(51 MB)
- ASPIC (original program by Prager) (1MB)
- ASPIC (grid parameters search) (Menu-driven software)(50 MB)
- Kobe plot (Menu-driven software) (5MB)

5. Check participant's PC

- Lap top PC per person (windows 7 or higher) (64 bits).
- R should be pre-installed.
- No MAC/Apple PC nor Tablets because of software compatibility problems.
- Hard Disk
(enough space : more than 20% should be available)

Important note

Normally it will **take several years**
to learn CPUE standardization by GLM and ASPIC
if you are the beginners and don't know any programs

You need to learn in several days !

How?

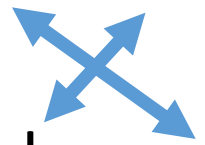
Don't worry

We prepare easy (menu driven) software

- CPUE standardization
- Stock assessments (ASPIC) (2)
 - Original by Prager (2004)
 - Grid (parameter) search
- Kobe plot
 - I Kobe plot
 - II Risk assessments (not covered this time)

How long dose it take to learn with and without software ? Merit and Demerit ?

	Merit	Demerit
• If you use the program (no software) a few years	flexible (output)	take time (difficult) to learn (only limited person)
• If you use software → 0.5 years	easy to do for anyone	output (FIXED)(not flexible)



Best way : 1st by software later challenge programs (R, SAS, C, etc.)


6. Outline of the training (revised)

National Report important to learn the current situation


April		Plan
17	Sun	Openings
		Orientations
		National Report
		Biology and Ecology of kawakawa and longtail tuna
		Data collection and process
18	Mon	CPUE standardization (outline initial practice)
19	Tue	ASPIC(outline initial practice)
20	Wed	Kobe plot (outline initial practice)
21	Thu	case study presentations (participants)
22	Fri	OFF
23	Sat	CPUE standardization、ASPIC and Kobe plot using real data and results of the stock status
24	Sun	
25	Mon	Final Practice
		Wrap up (Discussion and Summary)
		Closings

April 21 (Thu) Case study presentation


(to understand CPUE standardization + ASPIC) (20-30 minutes)


 (09) Case study ASPIC (LOT) (IOTC)


Thailand

 (10) Case study ASPIC (KAW) (IOTC)


Malaysia

~~ (11) Case study (Oman)~~


~~ (12) How to install R~~

 (13) Case study (K. Mackerel) (T Tobago)


Indonesia

~~ (14) (not ready) Stock structure~~

~~ (15) Kobe plot case study SC15 report~~

 (16) Case study Albacore (IOTC)

Philippines

 (17) Case study LOT NW IO (CPUE+ASPIC)

Brunei

 (18) Oman LOT CPUE

Viet Nam

Need user's friendly software for beginners
(no MATH nor programming)



Beginners

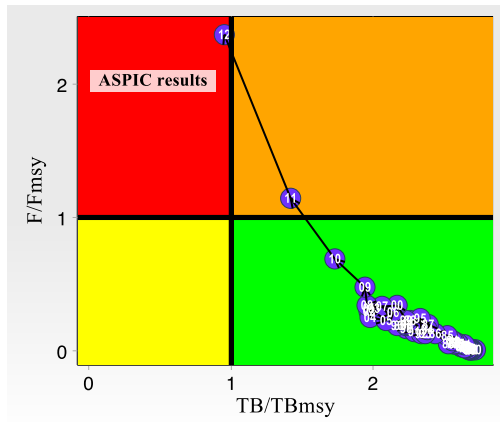


Aged (traditional)
person

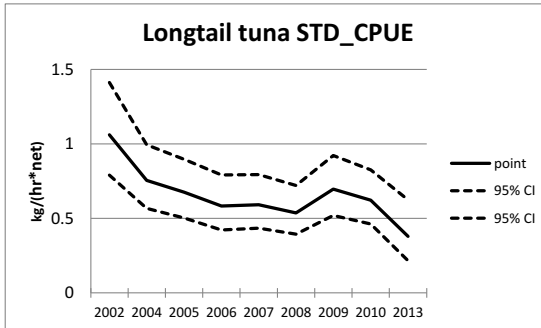


Special Marks to put on car in Japan

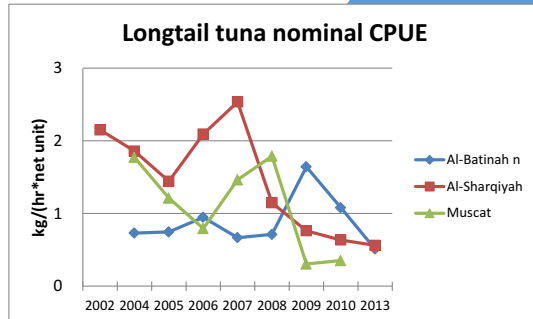
5 Process



(5) Kobe plot
(4) ASPIC



(3) STD_CPUE



(2) Nominal CE data
(nominal CPUE)

(1) Catch data

software

Excel

Our Goal ASPIC → Kobe plot
looks simple but there are many steps
(sometimes complex) to come this stage

