

Attachment A



**Draft Bridging CMM on South Pacific Albacore
College of Micronesia, FSM-China Friendship Sports Center
Pohnpei, Federated States of Micronesia
October 4, 2017
LIST OF PARTICIPANTS**

AUSTRALIA

Jenny Baldwin

Director - Multiateral and Migratory Stocks,
Fisheries Branch
Department of Agriculture and Water Resources
jenny.baldwin@agriculture.gov.au

Kerry Smith

Senior Manager - Foreign Compliance
Australian Fisheries Management Authority
kerry.smith@afma.gov.au

Mat Kertesz

Policy Officer, Multilateral & Migratory Stocks,
Fisheries Branch
Department of Agriculture and Water Resources
mat.kertesz@agriculture.gov.au

CHINA

Liu Xiaobing

Visiting Professor
Shanghai Ocean University
xiaobing.liu@hotmail.com

Zhao Gang

Deputy Secretary General
China Overseas Fisheries Association
Room 1216 Jingchao Mansion,
No.5,Nongzhanguan Nanlu Chaoyang
District,Beijing
86-10-65854085
admin1@tuna.org.cn

Li Yan

Coordinator
China Overseas fishereis Association
Room 1216 Jingchao Mansion,
No.5,Nongzhanguan Nanlu,Chaoyang
District,Beijing
86-10-65854355
admin1@tuna.org.cn

COOK ISLANDS

Timothy Costelloe

Director Offshore
Ministry of Marine Resources
+682 28721
t.costelloe@mmr.gov.ck

FIJI

Jone Amoe

Principal Fisheries Officer
Ministry of Fisheries
Motibhai Building, Walu Bay, Suva, Fiji.
(679) 362 0470
amoe.jone@gmail.com

Leba Dranivesi

Fisheries Officer
Ministry of Fisheries
P.O.Box 2218, Suva, Fiji.
+ 679 3620 470
dranivesi.leba@gmail.com

FRANCE

Le Quenven Matthieu

Head of Delegation of France
French State
French Polynesia BP 9096 98713 Motu Uta
ipede Tahiti
+689 87723615
matthieu.lequenven@affaires_maritimes.pf;
matthieu.le_quenven@developpement_dincible.
gouv.fr

INDONESIA

Fayakun Satria

Head of Research Institute for Marine Fisheries
Ministry of Marine Affairs and Fisheries
Cibinong, Bogor, Indonesia
fsatria70@gmail.com

Putuh Suadela

Staff for Directorate of Fish Resources
Management
Ministry of Marine Affairs and Fisheries
Jl. Medan Merdeka Timur No. 16, Jakarta,
Indonesia
+623453008
sdi.djpt@yahoo.com

JAPAN

Kengo Tanaka

Counsellor, Resources Management Department
Fisheries Agency of Japan
1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo,
JAPAN
+81-3-3502-8459
kengo_tanaka880@maff.go.jp

Ryoichi Nakamura

Assistant Director, Fisheries Management
Division
Fisheries Agency of Japan
1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo,
JAPAN
+81-3-6744-2364
ryoichi_nakamura520@maff.go.jp

Wataru Tanoue

Assistant Director, International Affairs Division
Fisheries Agency of Japan
1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo,
JAPAN
+81-3-3502-8459
wataru_tanoe630@maff.go.jp

Takahiro Fujiwara

Section Chief, International Affairs Division
Fisheries Agency of Japan
1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo,
JAPAN
+81-3-3502-8459
takahiro_fujiwara550@maff.go.jp

Akihiko Yatsuzuka

Advisor
Overseas Fishery Cooperation Foundation of
Japan(OFCF)
Toranomom 30 Mori BLDG., 2-2, Toranomom 3,
Minato-ku, Tokyo 105-001 Japan
+81-3-6895-5382
yatsuzuka@ofcf.or.jp

Akihito Fukuyama

Executive Secretary
Japan Far Seas Purse Seine Fishing Association
14-10 Ginza 1Chome, Chuo-ku, Tokyo 104-
0061, JAPAN
+81-3-3564-2315
japan@kaimaki.co.jp

Kazushige Hazama

Chief
National Offshore Tuna Fisheries Association of
Japan
Tohan No.3 Bldg. 1-3-1, Uchikanda, Chiyoda-
Ku, Tokyo, Japan
+81-3-3295-3721
zenkinjp@kinkatsukyo.or.jp

Naohisa Kanda

Environmental Management Unit
Japan NUS Co., Ltd
Nishi-Shinjuku Kimuraya Building 5F, 7-5-25
Nishi-Shinjuku, Shinjuku-ku, Tokyo160-0023,
JAPAN
+81-3-5925-6710
kanda-n@janus.co.jp

KIRIBATI

Mbwenea Teioki

mbweneat@mfmrd.gov.ki

Uati Tirikai

uatit@mfmrd.gov.ki

Wu De Cheng
Fleet General Manager
Kiribati Fish Ltd.
Betio, Tarawa, Kiribati
wudc@skmic.sh.cn

REPUBLIC OF KOREA

Ho Jeong Jin
Deputy General Manager
Korea Overseas Fisheries Association
nonhyunro 83, seochogu, Seoul, Korea
8225891613
jackiejin@kosfa.org

NAURU

Monte Depaune
Coastal Fisheries Manager
Nauru Fisheries and Marine Resources
Authority
P. O. Box 406, Republic of Nauru, Central
Pacific
5573136
monstartuna@gmail.com

Ace Capelle
Nauru Senior Observer Coordinator
Nauru Fisheries and Marine Resources
Authority
P. O. Box 406, Republic of Nauru, Central
Pacific
+674 557 3911
acecapelle@gmail.com

NEW ZEALAND

Richard Martin
International Compliance Adviser
Ministry for Primary Industries
richard.martin@mpi.govt.nz

Sarah Williams
Senior Policy Analyst
Ministry for Primary Industries
+64-4-894-644
sarah.williams@mpi.govt.nz

Megan Linwood
Senior Policy Analyst
Ministry for Primary Industries
Pastoral House, 25 The Terrace, PO Box 2526,
Wellington 6011, New Zealand
+64 4 8301532
megan.linwood@mpi.govt.nz

Andy Smith
Operations Manager
Talley's Group Ltd.
+642 133 7756
andy.smith@talleys.co.nz

Bubba Cook
WWF WCP Tuna Programme Manager
World Wide Fund for Nature
PO Box 6237, Marion Square, Wellington, NZ
6011
+64 (0)27 833 0537
acook@wwf.panda.org

PAPUA NEW GUINEA

Martina Ragagalo
PNG National Fisheries Authority
P.O. Box 2016, Port Moresby, PNG
+675 3090 436

Thomas Usu
PNG National Fisheries Authority
P.O. Box 2016, Port Moresby, PNG
+675 3090 436

Simon Kaumi
Department of Foreign Affairs
simon.kaumi3@gmail.com

Josephine Bade
Department of Foreign Affairs
joey.jbsde@gmail.com

Deborah Ruth Telek
Manager, Port Moresby
South Seas Tuna Corporation Limited
PO Box 376, PORT MORESBY 121, National
Capital District
+67572204519
deborah.telek@gmail.com

Harry (Ho-Tsung) Chen
Manager
South Seas Tuna Corporation Limited
PO Box 376, PORT MORESBY 121, National
Capital District
+6753213200
sstcharry@gmail.com

PHILIPPINES

Elaine Garvilles

Aquaculturist II
Bureau of Fisheries and Aquatic Resources
3F PCA Bldg Elliptical Road Diliman Quezon
City Philippines 1103
egarvilles@yahoo.com

SAMOA

Ueta Faasili Jr.

Principal Fisheries Officer
Ministry of Agriculture and Fisheries
'ueta.faasili@maf.gov.ws'

Tamaleaoa Leilua

Fisheries Officer MCS and Enforcement
Fisheries Division, Ministry of Agriculture and
Fisheries
P.O. Box 1878 Apia, Samoa
tamaleaoa.leilua@maf.gov.ws

SOLOMON ISLANDS

Francis Tofuakalo

Deputy Director Offshore
Solomon Islands Ministry of Fisheries and
Marine Resources
P.O.Box G2
67739143
ftofuakalo@fisheries.gov.sb

Charles Tobasala

Chief Fisheries Officer (Compliance)
Ministry of Fisheries and Marine Resources

Selina Lipa

Chief Fisheries Officer (Licensing)
Ministry of Fisheries and Marine Resources
MFMR, P.O Box G2, Honiara, Solomon Islands
677 39143
slipa@fisheries.gov.sb

Derick Suimae

Chief Fisheries Officer - Compliance - Noro Port
Ministry of Fisheries and Marine Resources
PO BOX G2 Honiara Solomon Islands
(677) 39143/61003
dsuimae@fisheries.gov.sb

Ellison Mason

Chief Desk Officer (Sup) Regional Economic
Cooperation
Ministry of Foreign Affairs and External Trade
Honiara
7698586
ellisonmason1@gmail.com

CHINESE TAIPEI

Chi-Chao Liu

Senior Specialist
Fisheries Agency, Council of Agriculture
8F, No.100, Sec. 2 Heping W. Rd., Zhongzheng
Dist., Taipei City, Chinese Taipei
chichao@ms1.f.gov.tw

Wen-Ying Wang

Section Chief
Fisheries Agency, Council of Agriculture
8F, No.100, Sec. 2 Heping W. Rd., Zhongzheng
Dist., Taipei City, Chinese Taipei
wenying@ms1.f.gov.tw

Hsiang-Yi Yu

Associate Specialist
Fisheries Agency, Council of Agriculture
8F, No.100, Sec. 2 Heping W. Rd., Zhongzheng
Dist., Taipei City, Chinese Taipei
hsiangyi@ms1.f.gov.tw

Joseph Chia-Chi Fu

Director
Overseas Fisheries Development Council of the
Republic of China
3F, No.14, Wenzhou St., Daan Dist., Taipei
City, Chinese Taipei
joseph@ofdc.org.tw

Shih-Ning Liu

Secretary
Overseas Fisheries Development Council of the
Republic of China
3F, No.14, Wenzhou St., Daan Dist., Taipei
City, Chinese Taipei
shirley@ofdc.org.tw

TONGA

Poasi Ngaluafe

Deputy CEO, Head of Fisheries Compliance
Division
Ministry of Fisheries
P.O BOX 871, Sopo, Tongatapu
(676)7762539
poasi66@hotmail.com

Salote Koloamatangi

Legal Officer
Ministry of Fisheries
Nuku'alofa
skoloamatangi@tongafish.gov.to

TUVALU

Samasoni Finikaso

Director of Fisheries
Ministry of Natural Resources
Vaiaku, Funafuti
samfinikaso70@gmail.com

Solomua Ionatana

Principal Fisheries Officer (Oceanic)
Fisheries Department
Ministry of Natural Resources Vaiaku, Funafuti
(688)-20704
tualen@gmail.com

Manuao Taufilo

mtaufilo@gmail.com

UNITED STATES OF AMERICA

Emily Crigler

Fishery Policy Analyst
NOAA Fisheries
+1 800-725-5036
emily.crigler@noaa.gov

Michael Abbey

International Affairs and Seafood Inspection
NOAA Fisheries
1315 East West Highway, Cubicle 10633, Silver
Spring, MD. 20910
+1.301.938.9544
michael.abbey@noaa.gov

Zora McGinnis

Fishery Policy Analyst
NOAA Fisheries
+1 808-725-5037
zora.mcginis@noaa.gov

Eric Kingma

Intl Fisheries, NEPA, Enforcement Coord.
Western Pacific Regional Fishery Management
Council
1164 Bishop St
808 5228141
eric.kingma@wpcouncil.org

Valerie Post

Fishery Policy Analyst
NOAA Fisheries
+808-725-5034
valerie.post@noaa.gov

VANUATU

Tony Taleo

Principal Data Officer
Vanuatu Fisheries
PMB 9045 Port Vila, Vanuatu
(678) 231119; (678) 5463595
ttaleo@vanuatu.gov.vu

Felix Toa Ngwango

Principal Compliance Officer
Vanuatu Fisheries
PMB 9045 Port Vila, Vanuatu
(678) 231119; (678) 5447335
ftngwango@vanuatu.gov.vu

PARTICIPATING TERRITORIES

FRENCH POLYNESIA

Marie Soehnlén

Fisheries officer
Direction des ressources marines et minières
(Marine resources and mining department)
BP 20 - 98713 Papeete - French Polynesia
+689 40 50 25 50
marie.soehnlén@drm.gov.pf

NEW CALEDONIA

Manuel Ducrocq

Deputy Head of Fisheries Department ,
Maritimes Affairs
New Caledonia Government
BP M2, 2 bis rue felix russeil 98869 Nouméa
+687270693; Mobile +687 76 9737
manuel.ducrocq@gouv.nc

OBSERVERS

BIRDLIFE INTERNATIONAL

Karen Baird

Regional Coordinator Oceania, BirdLife
International Marine Programme
private address
400 Leigh Road, RD 5
94226868
k.baird@forestandbird.org.nz

PACIFIC ISLANDS FORUM FISHERIES AGENCY (FFA)

Wez Norris

Deputy Director-General
Pacific Islands Forum Fisheries Agency
1 FFA Road, West Kola'a Ridge, PO Box 629,
Honiara, Solomon Islands
+677 21124
wez.norris@ffa.int

Noan Pakop

Director Fisheries Operation
Pacific Islands Forum Fisheries Agency
1 FFA Road, West Kola'a Ridge, PO Box 629,
Honiara, Solomon Islands
+677 21124
noan.pakop@ffa.int

Tim Adams

Director Fisheries Management
Pacific Islands Forum Fisheries Agency
1 FFA Road, West Kola'a Ridge, PO Box 629,
Honiara, Solomon Islands
+677 21124
tim.adams@ffa.int

Viv Fernandes

Compliance Policy Adviser
Pacific Islands Forum Fisheries Agency
1 FFA Road, West Kola'a Ridge, PO Box 629,
Honiara, Solomon Islands
+677 21124
viv.fernandes@ffa.int

Pamela Maru

Fisheries Management Adviser
Pacific Islands Forum Fisheries Agency
1 FFA Road, West Kola'a Ridge, PO Box 629,
Honiara, Solomon Islands
+677 21124
pamela.maru@ffa.int

Manu Tupou-Roosen

Legal Counsel
Pacific Islands Forum Fisheries Agency
1 FFA Road, West Kola'a Ridge, PO Box 629,
Honiara, Solomon Islands
+677 21124
manu.tupou-roosen@ffa.int

Shunji Fujiwara

Tuna Industry Adviser
Pacific Islands Forum Fisheries Agency
1 FFA Road, West Kola'a Ridge, PO Box 629,
Honiara, Solomon Islands
+677 21124
shunji.fujiwara@ffa.int

THE PEW CHARITABLE TRUSTS (PEW)

Glen Holmes

Officer
The Pew Charitable Trusts
gholmes@pewtrusts.org

THE PACIFIC COMMUNITY (SPC)

Graham Pilling

Principal Fisheries Scientist (Stock Assessment)
SPC
Noumea, New Caledonia
+687 262000
grahamp@spc.int

Icanus Tuiloma

Observer Data Manager
SPC
icanust@spc.int

WCPFC SECRETARIAT

Rhea Christian Moss

WCPFC Chair
rhea.christian@wcpfc.int

Feleti P. Teo

Executive Director
Western and Central Pacific Fisheries
Commission
Kaselehlle Street, Pohnpei FM 96941
691 320-1993
feleti.teo@wcpfc.int

SungKwon Soh
Science Manager
Western and Central Pacific Fisheries
Commission
Kaselehlie Street, Pohnpei FM 96941
691 320-1993
sungkwon.soh@wcpfc.int

Aaron Nighswander
Finance and Administrative Manager
Western and Central Pacific Fisheries
Commission
Kaselehlie Street, Pohnpei FM 96941
691 320-1993
aaron.nighswander@wcpfc.int

Lara Manarangi-Trott
Compliance Manager
Western and Central Pacific Fisheries
Commission
Kaselehlie Street, Pohnpei FM 96941
691 320-1993
lara.manarangi-trott@wcpfc.int

Sam Taufao
IT Manager
Western and Central Pacific Fisheries
Commission
Kaselehlie Street, Pohnpei FM 96941
691 320-1993
sam.taufao@wcpfc.int

Albert Carlot
VMS Manager
Western and Central Pacific Fisheries
Commission
Kaselehlie Street, Pohnpei FM 96941
691 320-1993
albert.carlot@wcpfc.int

Anthony Beeching
Assistant Science Manager
Western and Central Pacific Fisheries
Commission
Kaselehlie Street, Pohnpei FM 96941
691 320-1993
anthony.beeching@wcpfc.int

Karl Staisch
Observer Programme Coordinator
Western and Central Pacific Fisheries
Commission
Kaselehlie Street, Pohnpei FM 96941
691 320-1993
karl.staisch@wcpfc.int

'Ana Taholo
Assistant Compliance Manager
Western and Central Pacific Fisheries
Commission
Kaselehlie Street, Pohnpei FM 96941
691 320-1993
ana.taholo@wcpfc.int

Lucille Martinez
Administrative Officer
Western and Central Pacific Fisheries
Commission
Kaselehlie Street, Pohnpei FM 96941
691 320-1993
lucille.martinez@wcpfc.int

Arlene Takesy
Executive Assistant
Western and Central Pacific Fisheries
Commission
Kaselehlie Street, Pohnpei FM 96941
691 320-1993
arlene.takesy@wcpfc.int

Milo Abello
VMS Operation Officer
Western and Central Pacific Fisheries
Commission
Kaselehlie Street, Pohnpei FM 96941
691 320-1993
milo.abello@wcpfc.int

Samuel Rikin
IT Officer
Western and Central Pacific Fisheries
Commission
Kaselehlie Street, Pohnpei FM 96941
691 320-1993
samuel.rikin@wcpfc.int

Penelope Ridings
Legal Advisor
pennyridings@yahoo.com

CONSULTANT

Ian Cartwright
Facilitator

Kim Duckworth
Consultant
kim.duckworth1@gmail.com

SUPPORT STAFF

Rose George

Support Staff
Western and Central Pacific Fisheries
Commission
Kaselehlie Street, Pohnpei FM 96941
691 320-1993
rose.george@wcpfc.int

Virgilio San Jose

Support Staff
Western and Central Pacific Fisheries
Commission
Kaselehlie Street, Pohnpei FM 96941
691 320-1993
vsanjose26@yahoo.com

Bill Dakano

Support Staff
Western and Central Pacific Fisheries
Commission
Kaselehlie Street, Pohnpei FM 96941
691-320-1993

Attachment B



**WCPFC
Intercessional Meeting to Progress the draft Bridging Measure for South Pacific Albacore**

**4th October 2017
Pohnpei, Federated States of Micronesia**

PROVISIONAL AGENDA

**WCPFC-IM-SPA-INF-01
25 September 2017**

AGENDA ITEM 1 OPENING OF MEETING

The meeting will open at 8:30 on Wednesday, 4 October, 2017

1.1 Welcome

The WCPFC Chair will officiate at the opening of the meeting by welcoming all delegations and providing some opening remarks. She will then introduce the facilitator and a representative from New Zealand who will preside over the remainder of the meeting.

1.2 Adoption of Agenda

The Provisional Agenda (WCPFC-IM-SPA-INF-01) that was distributed will be introduced and adopted with any agreed changes.

1.3 Introduction

New Zealand will be invited to give a presentation on the background of the CMM to provide context for the day.

AGENDA ITEM 2 PRESENTATION OF OUTCOMES OF SCIENTIFIC COMMITTEE 13TH ANNUAL SESSION

2.1 Stock assessment outcomes for albacore

SPC-OFP will provide a presentation on the status of the South Pacific albacore stock and most recent catch estimates.

2.2 Relevant recommendations from SC13

SPC-OFP will provide a summary of SC13 and relevant recommendations.

2.3 Economic status of the fishery

FFA will provide a summary of cost structures for the southern longline fishery.

AGENDA ITEM 3 HARVEST STRATEGY

3.1 Progress on South Pacific albacore harvest strategy

The WCPFC Secretariat will give a presentation on the progress of the harvest strategy for South Pacific albacore, including adoption of a TRP and LRP.

CCMs will be invited to discuss the most recent TRP impacts analysis (SC13-WCPFC13-03) in preparation for adoption of the South Pacific albacore TRP at WCPFC14.

AGENDA ITEM 4 KEY ISSUES

4.1 Future of albacore fishery

CCMs will be invited to discuss what they want out of the South Pacific albacore fishery and how they see the fishery changing in the next 5 to 10 years. CCMs will also be invited to discuss how they see the CMM fitting into the overall management of South Pacific albacore.

AGENDA ITEM 5 Draft Bridging CMM

5.1 Draft CMM

CCMs will be invited to discuss the draft bridging measure for South Pacific albacore and may provide advice on the components of the CMM including setting an interim limit and apportioning catch, facilitating cooperation, and how the CMM fits within the development of a harvest strategy.

AGENDA ITEM 6 NEXT STEPS

CCMs will consider next steps on progressing the draft Bridging CMM and related issues.

AGENDA ITEM 7 CLOSE OF MEETING

The Chair will close the meeting at the end of the proceedings.

Attachment C

South Pacific Albacore Conservation and Management Measure

Sarah Williams NZ/FAA

South Pacific Albacore Conservation and Management Measure

Intersessional Meeting of the Western and Central Pacific Fisheries
Commission

4 October 2017

Introduction

Background – How we got here

- Various CMMs
- MOW 1-4
- Draft Bridging CMM

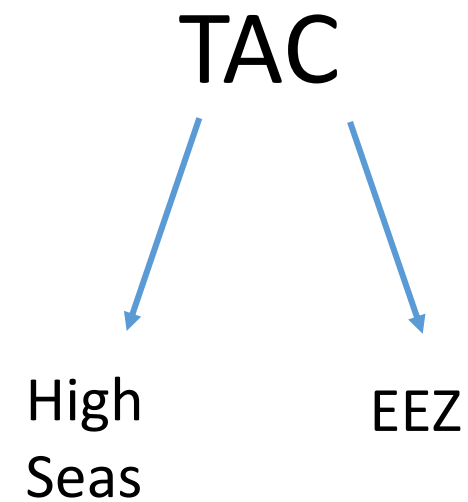
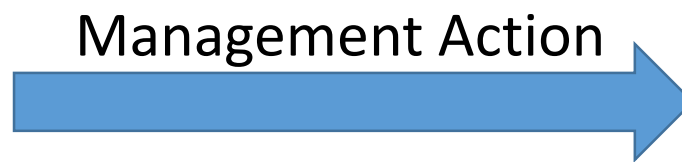
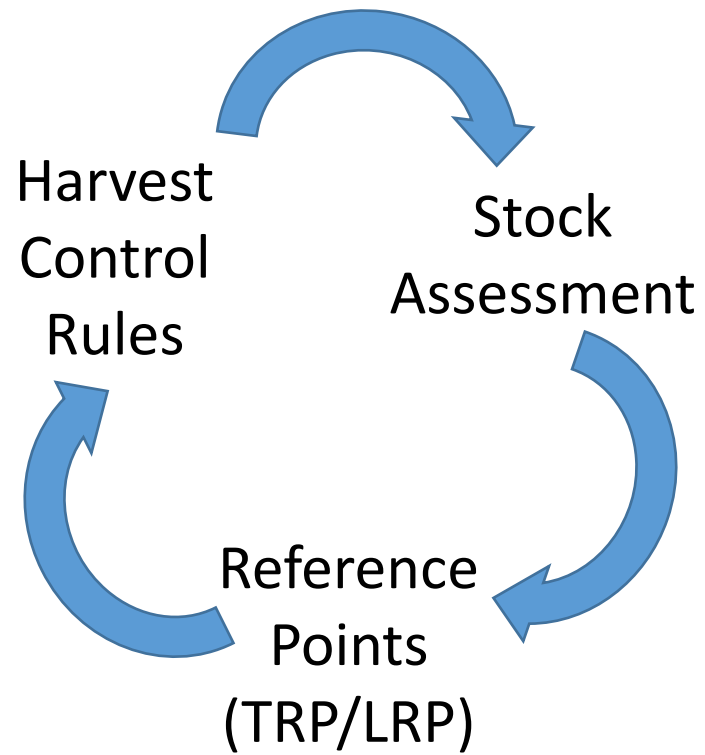
Why we're here

(WCPFC13 Recommendations)

- WCPFC13 agreed to task New Zealand, on behalf of FFA, with advising members early in 2017 of the proposed process for progressing the Bridging CMM on South Pacific albacore.
- The Commission directed that further discussion of the TRP should take place over the course of 2017 as part of the ongoing consultative process for the development of a Bridging Measure for the Conservation and Management of the South Pacific Albacore stock, and should include a report on progress by the Convenor of that process to the 13th WCPFC Scientific Committee.

Meeting Goals

- Refine the fishery objectives
- Advance the draft bridging CMM



Candidate Management Objectives –

SC13-2017/MI-WP-02

Biological

- Sustainable stock size

Social

- Food security in developing states
- Avoid adverse impacts on small scale fishers
- Maintain/develop domestic fishery – NEW
- Human resource development - NEW

Economic

- Max economic yield
- Maximise catch
- Maximise SIDs revenues from rents
- Effort predictability
- Maintain albacore, big eye, yellowfin, swordfish around TRP
- Optimise capacity – NEW

Ecosystem

- Minimise catch of non-target species

Potential Refined List

- Spawning biomass remains above the adopted Limit Reference Point of 20%
- Maintain spawning biomass at a level that supports longline catch rates higher than the levels observed in recent years
- Manage the fishery in a way that prevents large inter-annual variations in catch and effort.

Bridging CMM

- Interim TAC
 - Range for discussion
 - MSY: 76,800mt
 - 2005 catches: 56,486mt
 - 2015 catches: 63,300mt
 - 45% SBF=0: 44,000mt
 - 42% SBF=0: 46,100mt

Harvest Strategy Components - TRP

- Range of TRPs SB2033/SBF=0
 - 45%
 - Allows 20% revenue margin per average vessel
 - Risk of breaching LRP 0%
 - 14%
 - Maximum Sustainable Yield
 - Risk of breaching LRP 74%
 - 32%
 - Achieved if no change in effort from 2013 levels
 - Risk of breaching LRP 20% (maximum agreed by Commission)

Interim allocations

Range of interim allocations for discussion

Options for EEZ:HS split:

- Norm best 68%:32%
- 2005 catch 57%:43%
- 15 year av 60%:40%
- 2015 66%:34%
- 2000-2004 av 54%:46%

Terminology

From MOW-WINF-05

- Harvest Strategy: specifies target and limit reference points and management actions associated with achieving the targets and avoiding the limits
- Limit reference point (where not to go) - a benchmark which defines undesirable states of the system that should be avoided or achieved with very low probability.
- Target reference point (TRP): a benchmark which assesses the performance of management in achieving one or more operational management objectives.
- Harvest control rule – specific course of action that includes the specific amount of catch, effort, or fishing mortality based on some indicator of the current system state (e.g. stock status)

Attachment D

Status of the south Pacific Albacore stock, and recent catch estimates and SC13 recommendations

Graham Pilling SPC-OFP



Pacific
Community
Communauté
du Pacifique

Agenda item 2.1 Status of the south Pacific Albacore stock, and recent catch estimates and 2.2 SC13 recommendations

Intersessional Meeting to progress the draft Bridging CMM on South Pacific Albacore

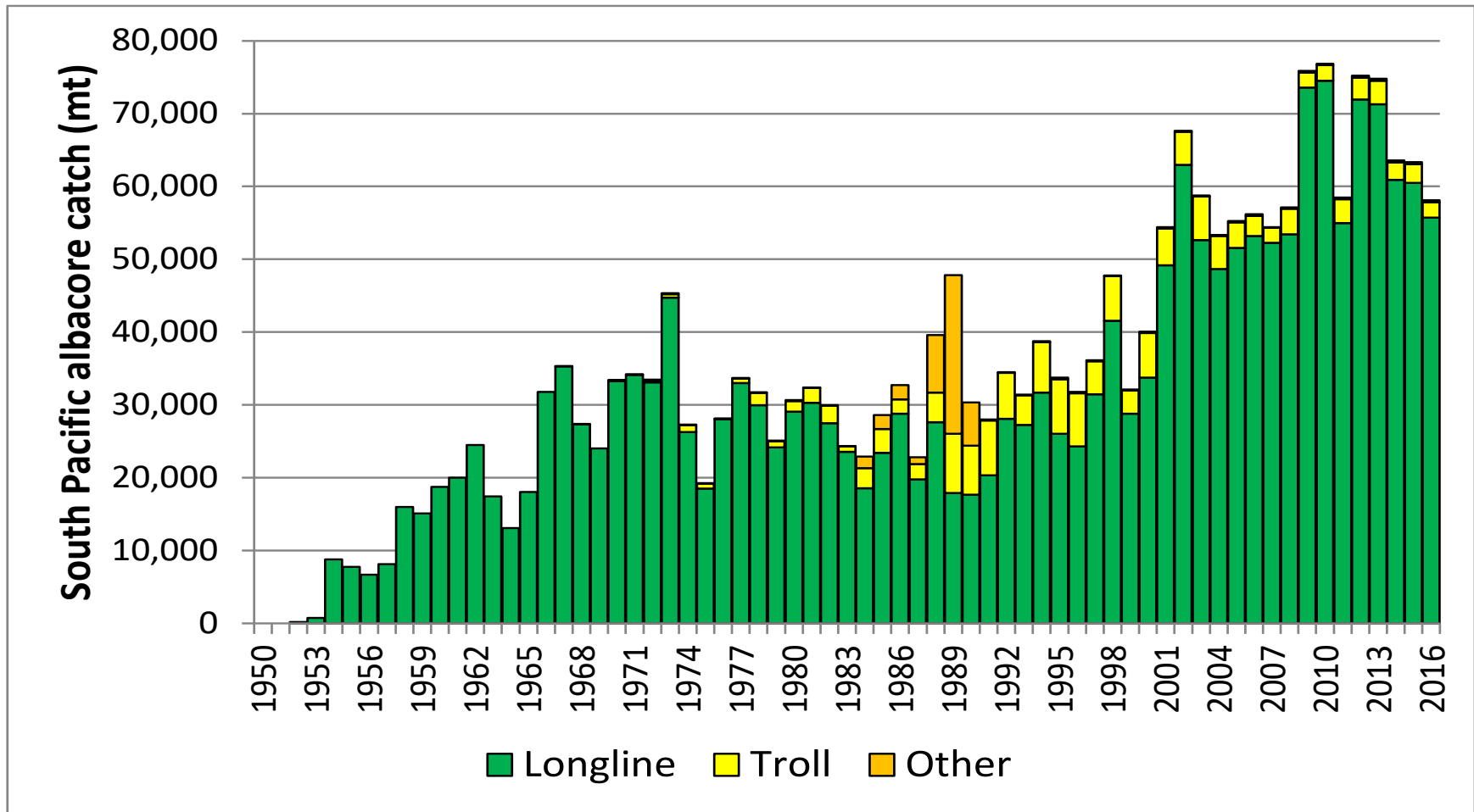
Pohnpei, FSM, 4th October 2017

Oceanic Fisheries Programme, SPC

Overview

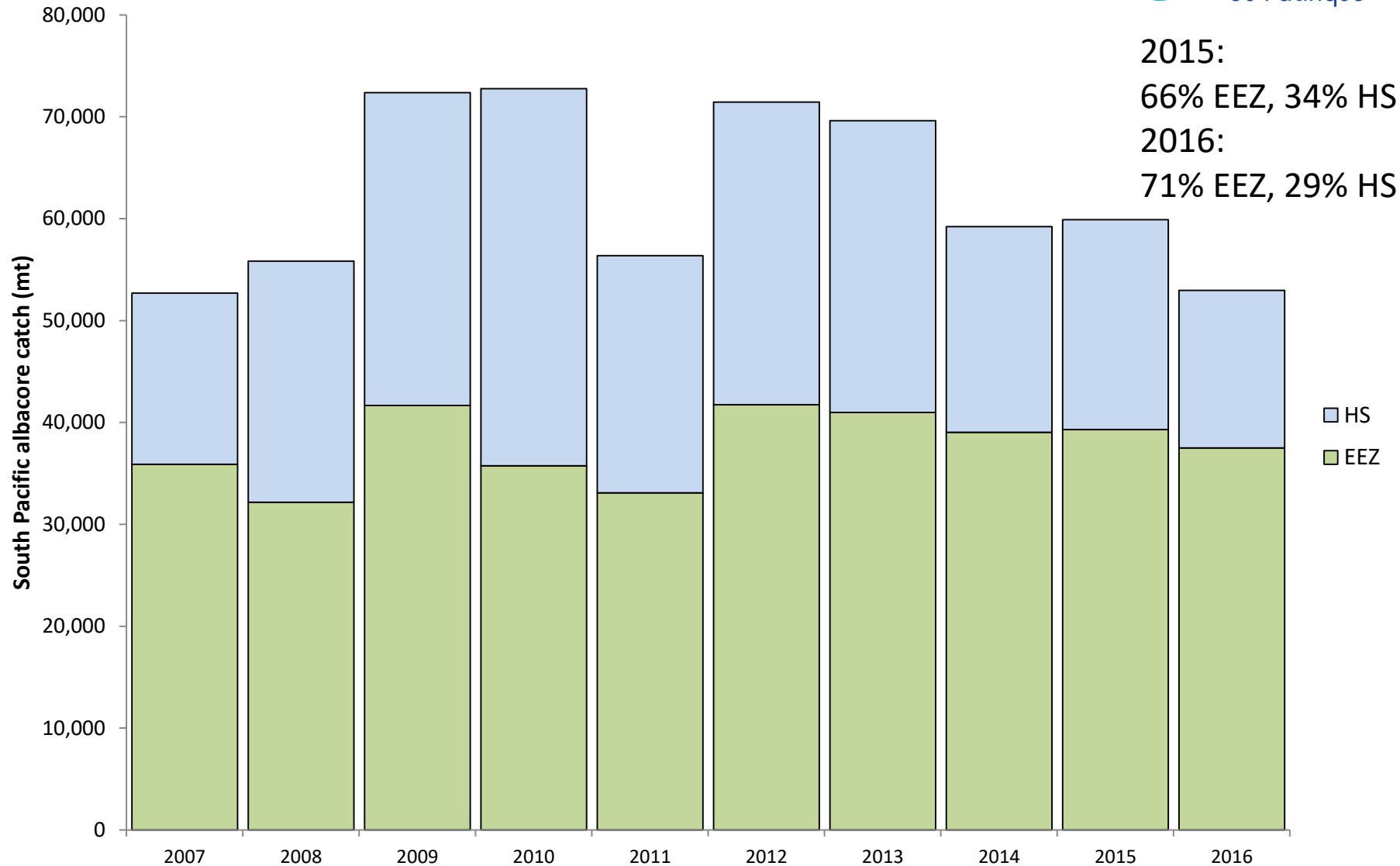
- Update on catch/effort/CPUE trends in fishery
- Summary of current and future stock status
 - Updated stock projections based on recent fishing patterns
- Recommendations from SC13
- Background work on candidate TRP options

Southern WCP_CA albacore catch by gear

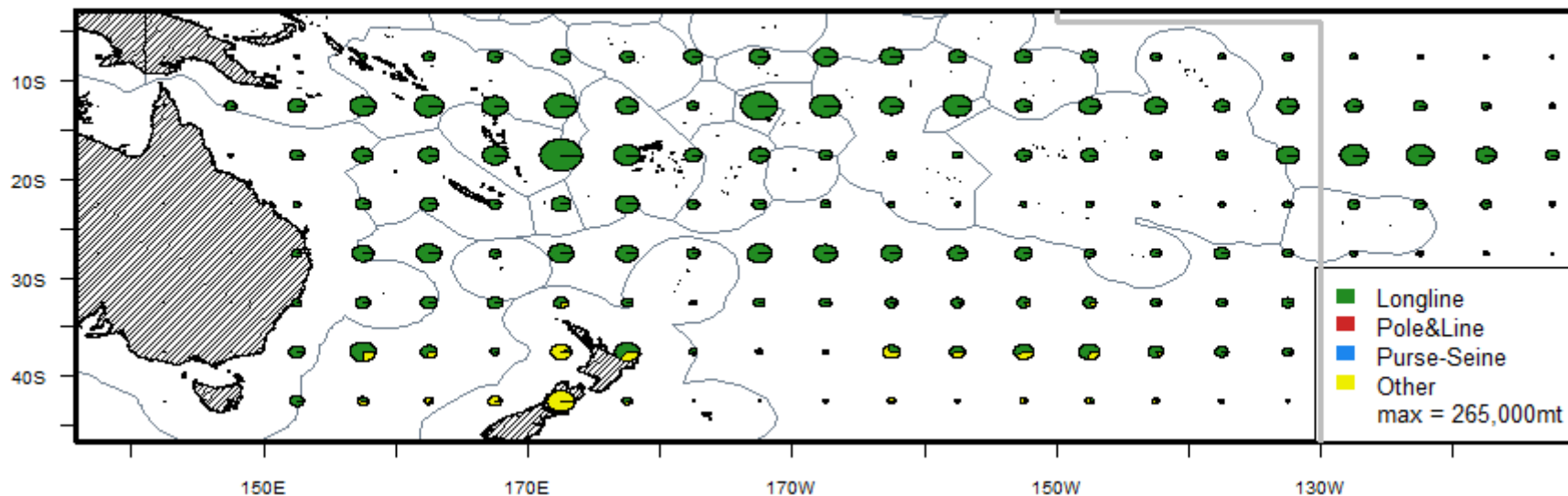


- 2016 LL catch down 8% from 2015, 13% from 2011/2015 avg
- 2016 troll catch down 17% and 24% respectively
- Longline ~97% of the catch

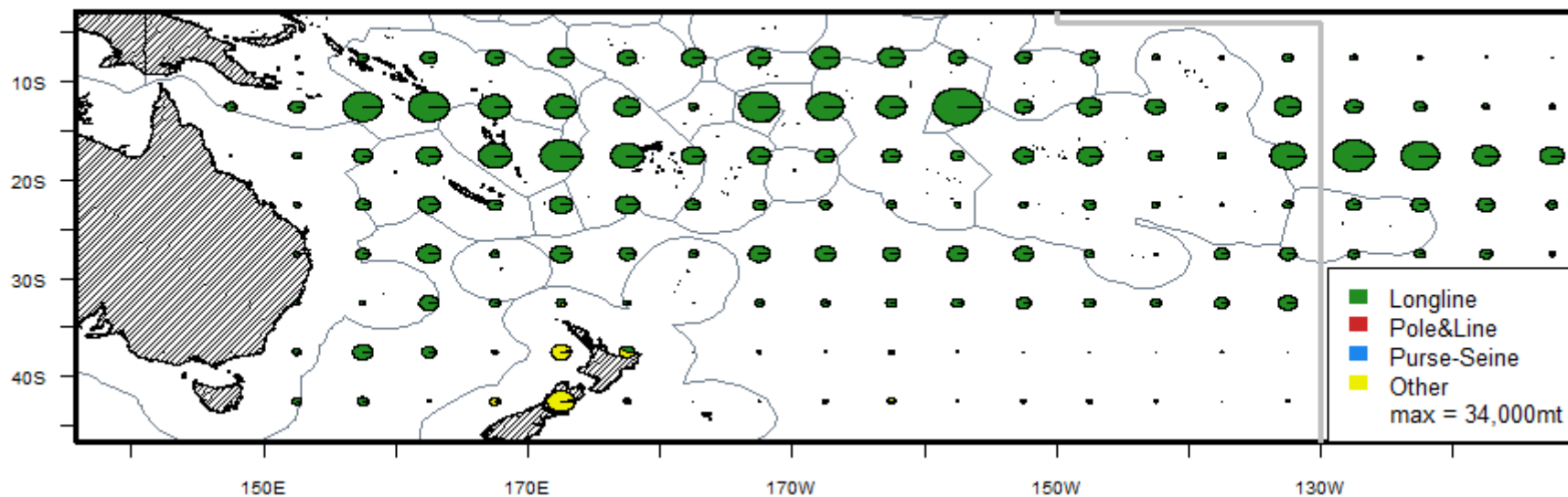
Southern WCP_CA, albacore catch by area



1950 - 2016

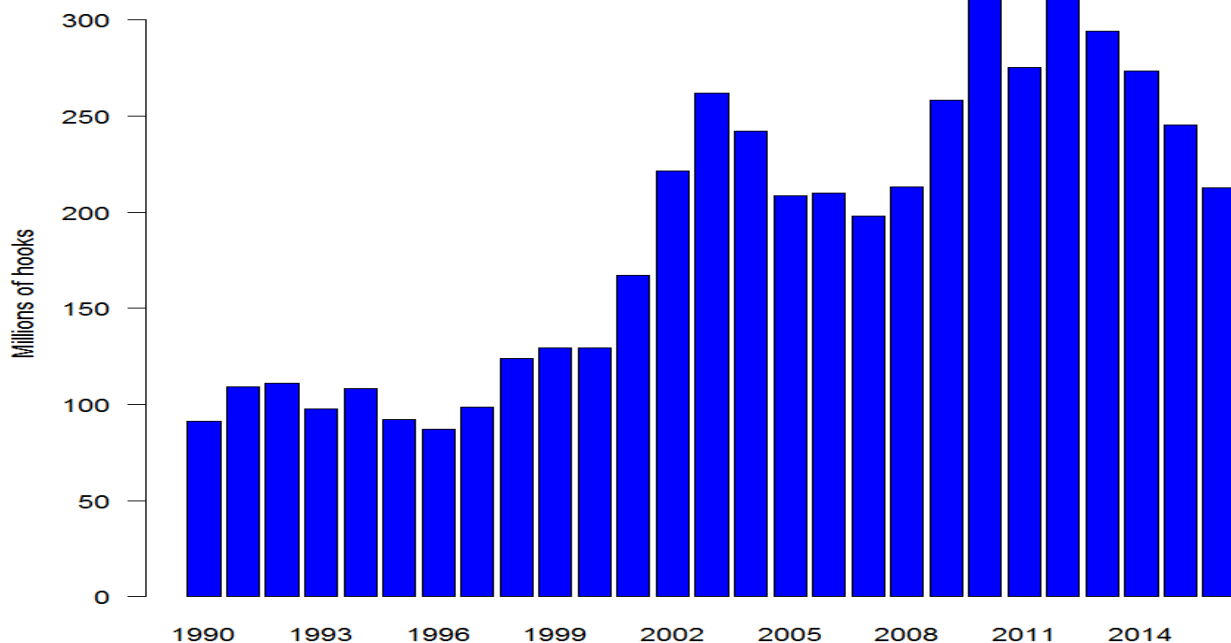


2012 - 2016



South Pacific (S 10degS) albacore effort

Longline effort (hooks) south of 10°S in the WCP_CA

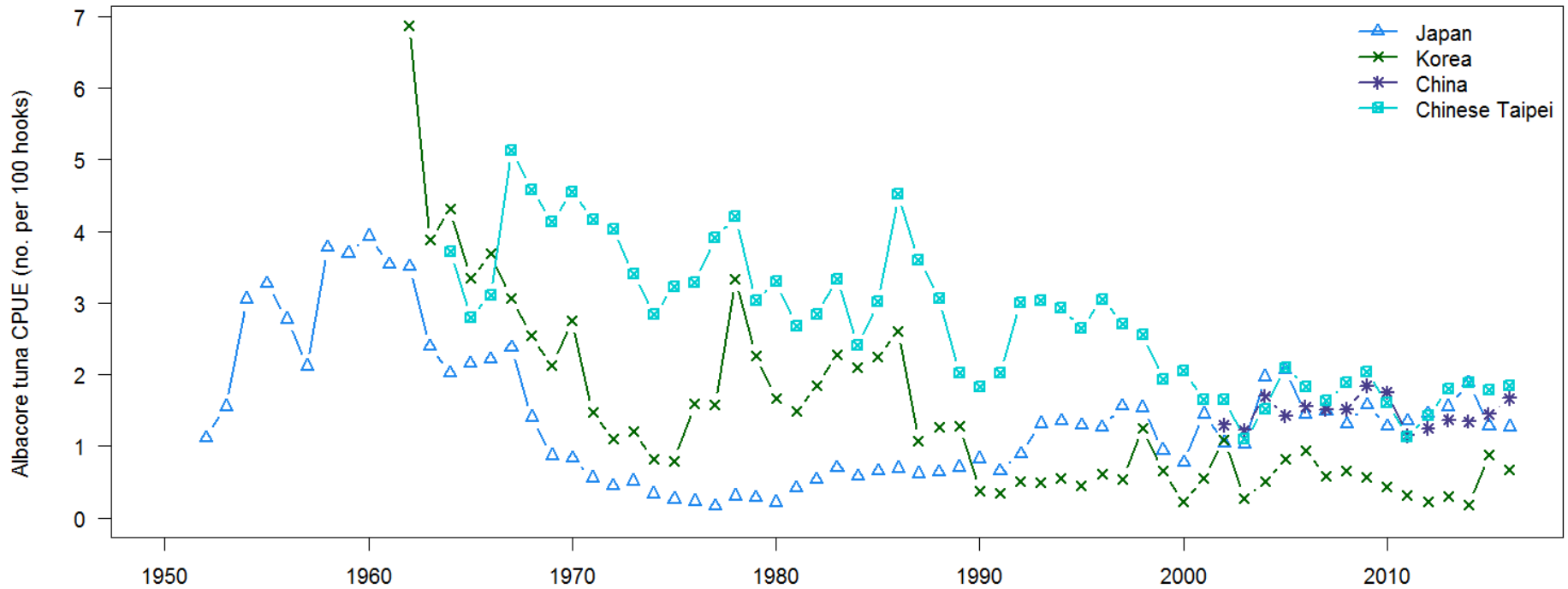


- 2016 effort: 13% less than 2015
- VMS days most “up to date”
- 2016 effort +6% from 2015
- High seas effort proportion ~ 25-30%

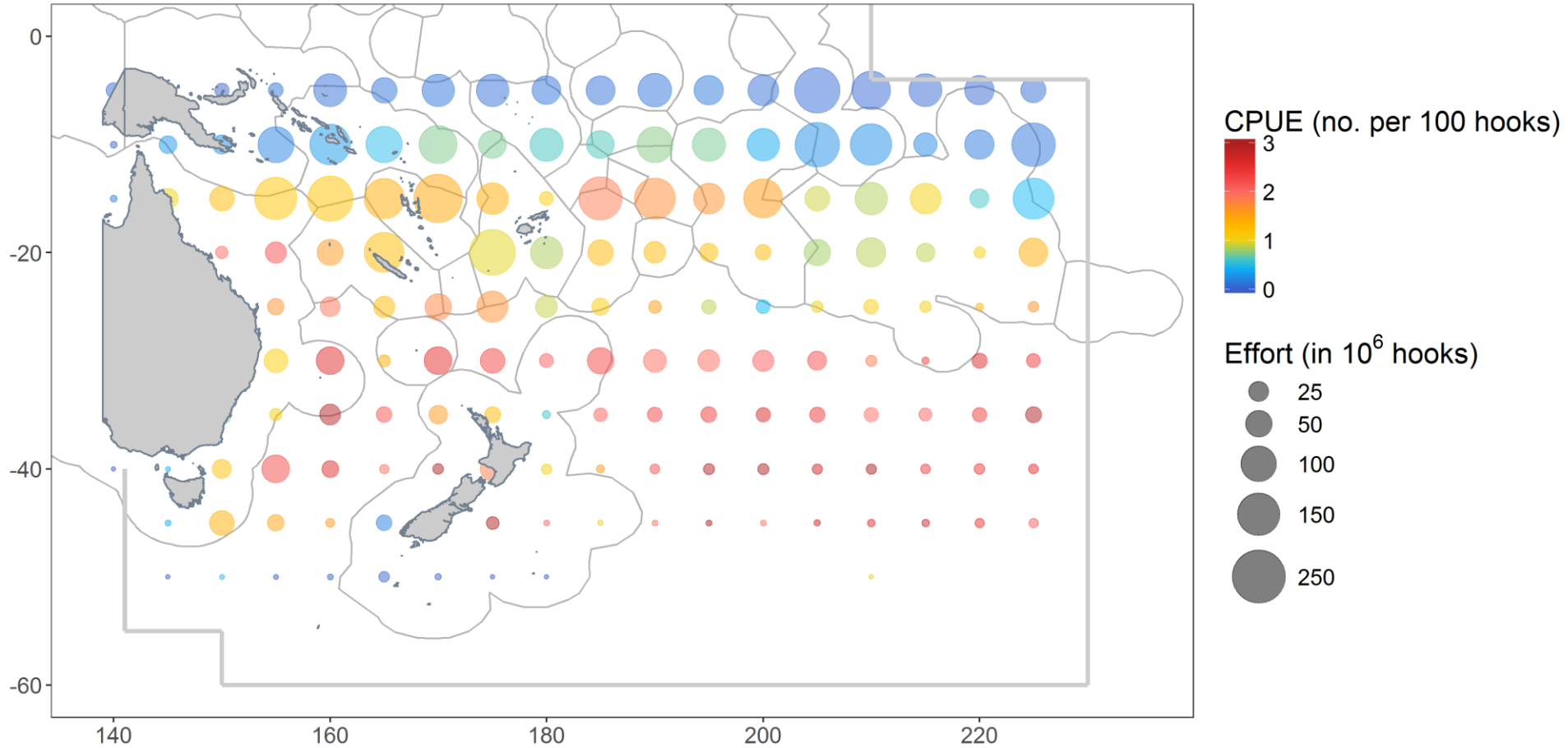
	2010	2011	2012	2013	2014	2015	2016
EEZ	70,435	73,095	75,661	78,485	64,471	65,308	72,627
International waters (IW)	21,379	23,803	24,038	32,500	28,141	23,956	21,627
Total	91,814	96,898	99,699	110,985	92,612	89,264	94,254
% EEZs	77	75	76	71	70	73	77
% High Seas	23	25	24	29	30	27	23

Trends in LL CPUE by key flag

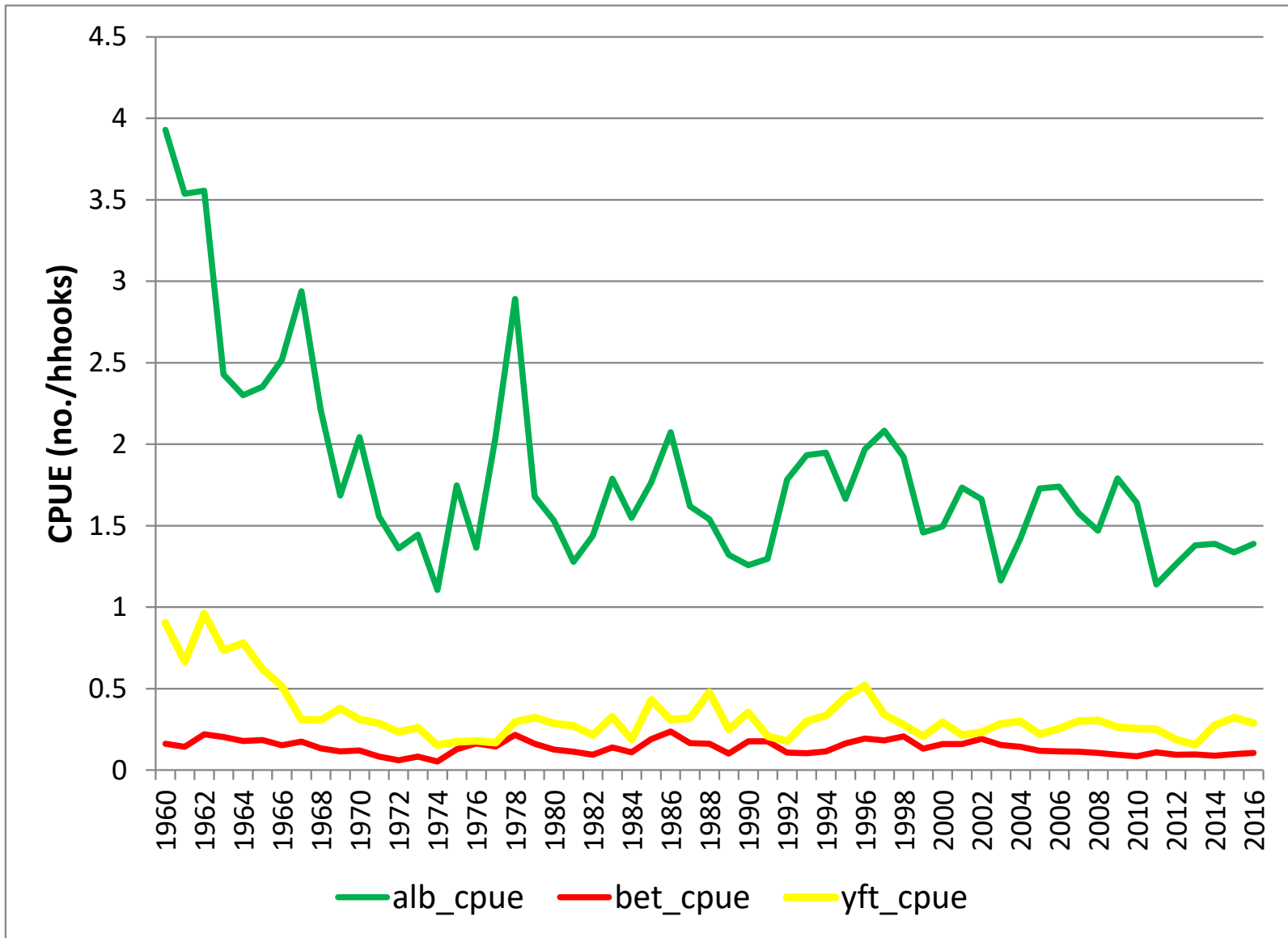
Longline (1952-2016)



2001-2016

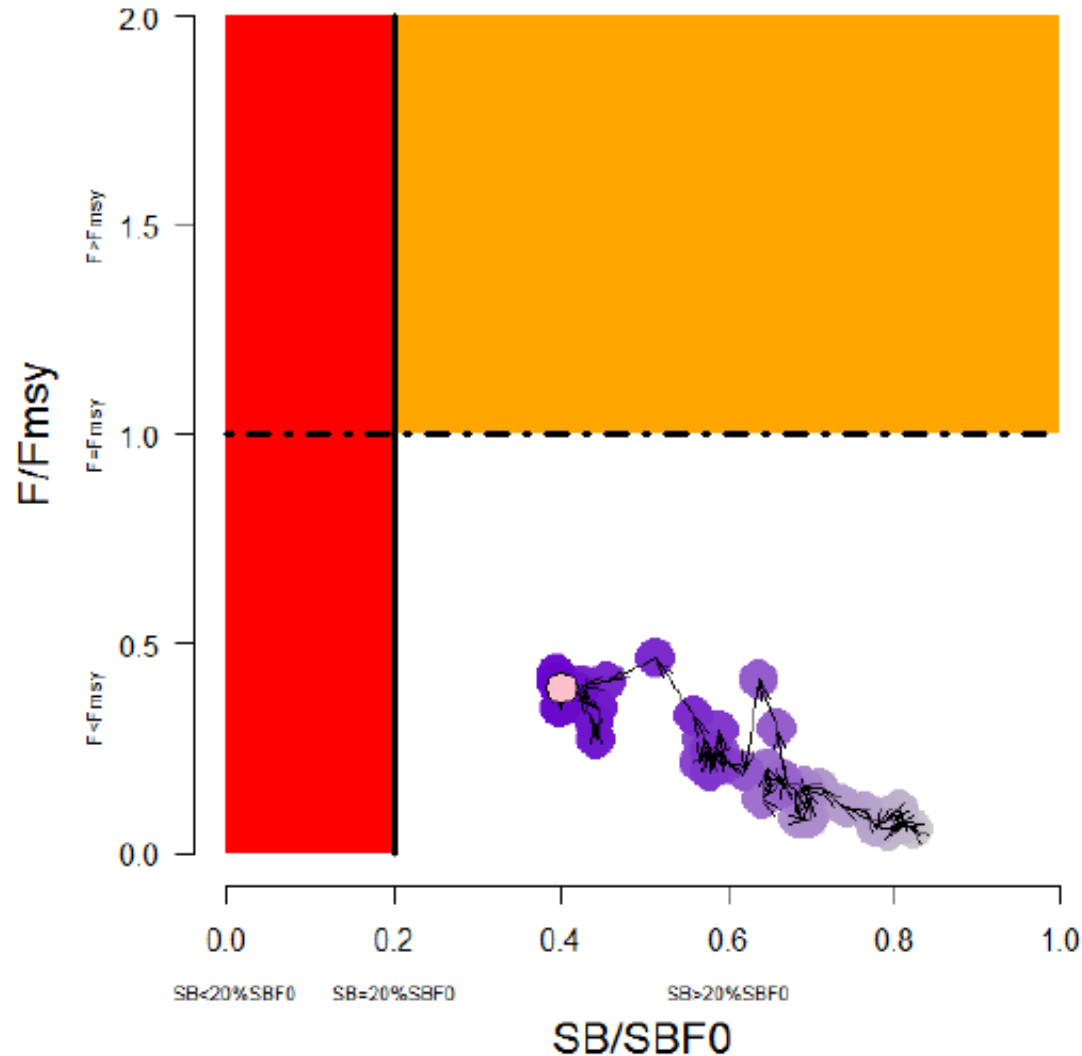


LL CPUE southern WCP_CA 10degS



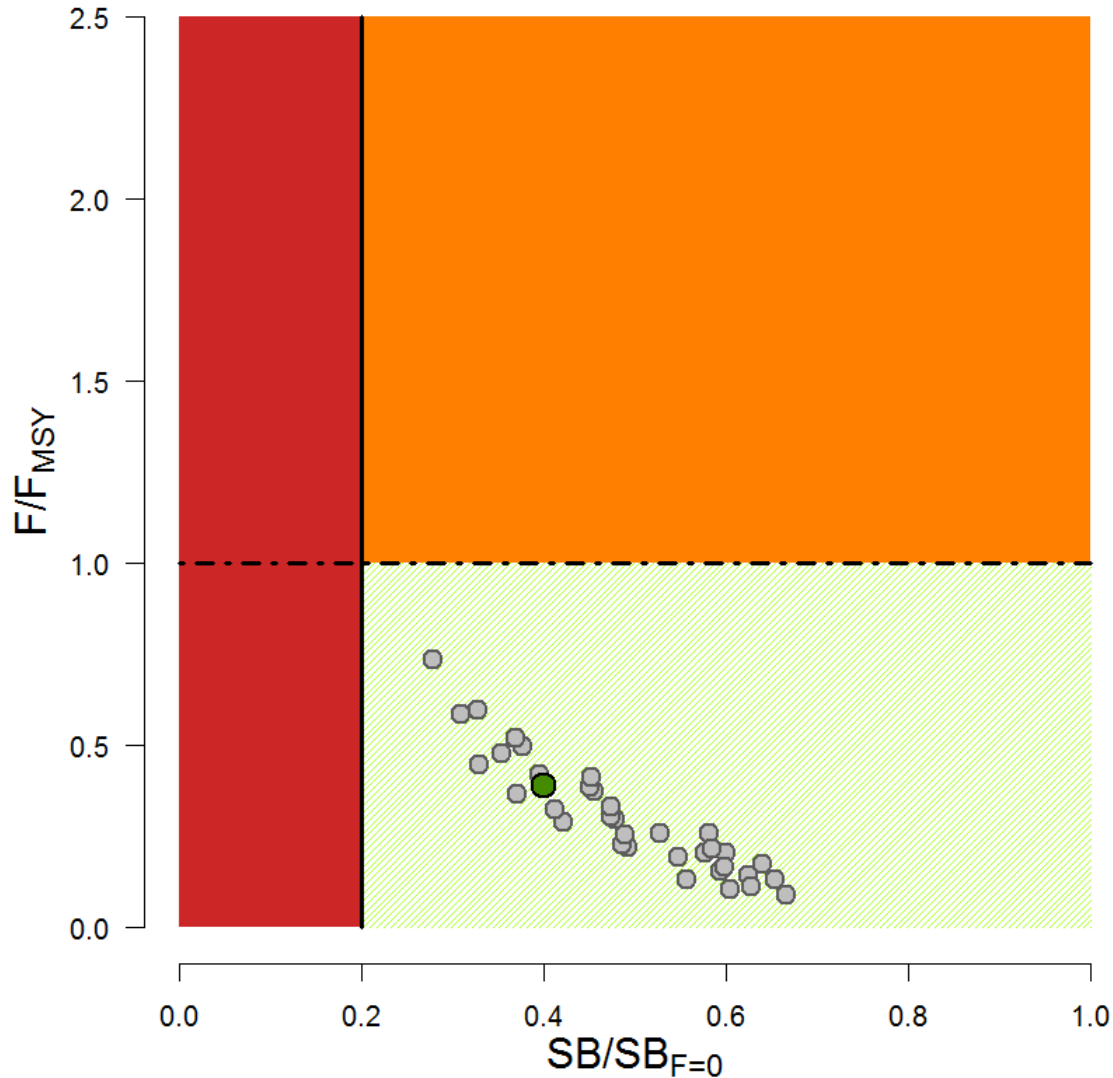
South Pacific Albacore stock status

- Last assessment in 2015 (2013 status)

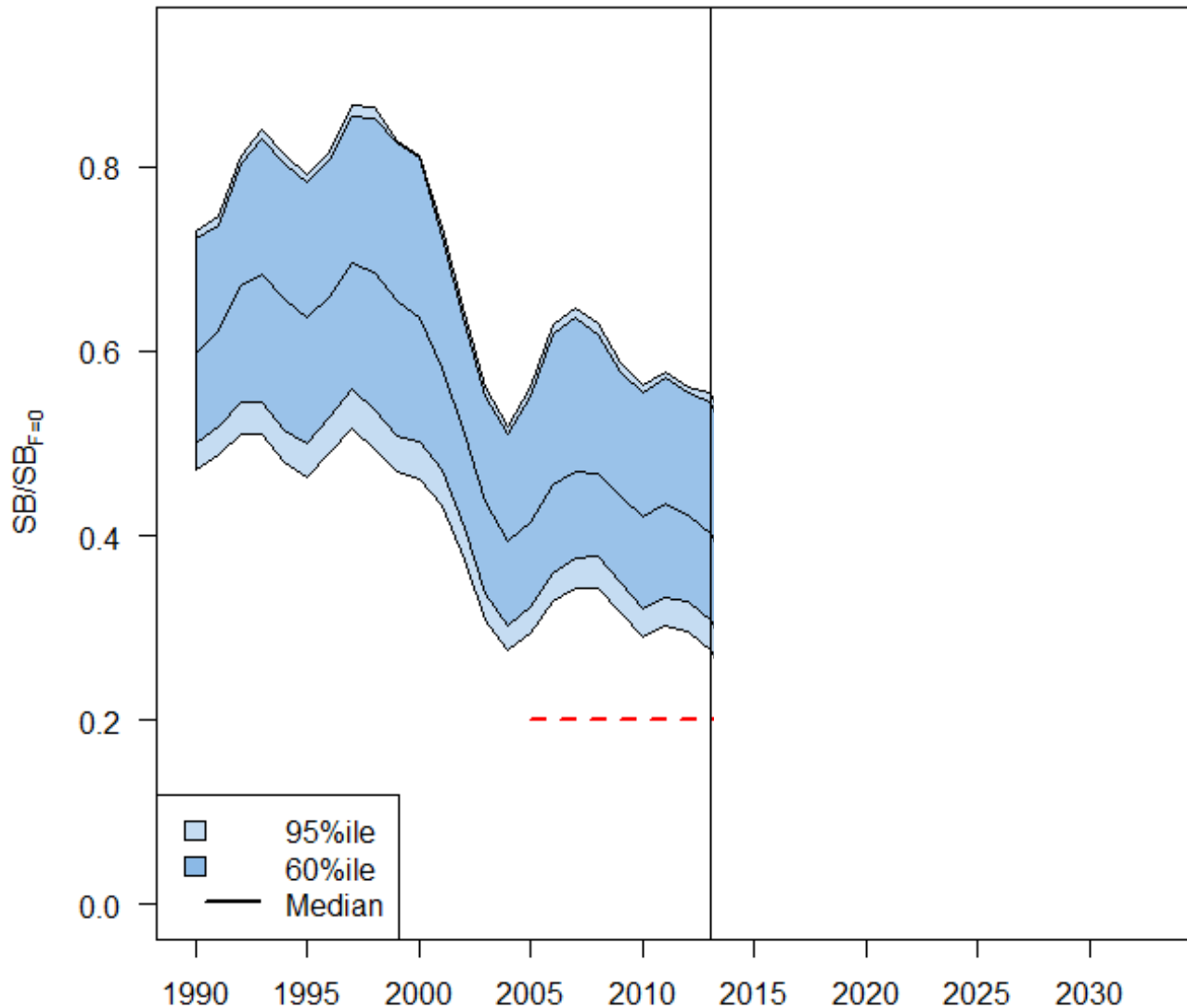


South Pacific Albacore stock status

- Last assessment in 2015 (2013 status)



Albacore stock status



Projections using
2015 effort levels
(note catch-based
projections are
more pessimistic)

Stock status from
41% SB_{F=0}
to 35% in 2033

Risk SB < LRP = 7%
in 2033

CPUE (VB) -7%
from 2013 levels

9 models

9 models x 200 projections

SC13 Advice

- No assessment conducted in 2017
 - Stock status description from SC11 still current
- Noted decrease in total catch (~8% from 2015; 13% from 2011-2015) and effort (~ 15% from 2015)
- Noted results of projection analyses
 - Reduction in average biomass, 7% risk of falling below the LRP, declines in vulnerable biomass (CPUE)

SC13 Advice

- Pending a new assessment in 2018, SC13 noted SC11 and SC12 advice:
 - longline fishing mortality and longline catch be reduced to avoid further decline in the vulnerable biomass so that economically viable catch rates can be maintained, especially for longline catches of adult albacore.
- SC13 recommends that this advice be taken into consideration when the TRP for South Pacific albacore is discussed at WCPFC14.

SC13 activities on PIs and MS

- SC13 SWG on performance indicators and monitoring strategies (MI-WP-02/ISG8) - technical review for southern longline fishery

Objective type	Candidate Objective	Performance indicator
Biological	Maintain stock(s) biomass at sustainable levels	$P(SB < LRP)$ from modelling
Economic	Maximising economic yield	Predicted effort v E_{MEY} (incl. multispp) and B_{MEY}
	Maximise catch	Avg expected catch
	Maintain acceptable CPUE	Predicted CPUE cf reference levels
	Maximise SIDS revenues	Avg value of SIDS/non-SIDS catch
	Catch stability	Avg annual variation in catch
	Effort predictability	Effort variation cf reference period
	Maintain stock(s) around TRP	$P(SB/SB_{F=0}) \sim TRP$

SC13 activities on PIs and MS

Objective type	Candidate Objective	Performance indicator
Social	Food security in developing states	Proxy: avg proportion of CCM's catch/total in regions
	Avoid adverse impacts on small scale fishers	Proxy: avg catch for small scale fisheries
	Maintain/develop domestic fisheries	Level of effort/catch in domestic fishery
	Human resource development	Employment: Proxy: domestic catch
Ecosystem	Minimise catch of non-target spp	Expected catch of other spp

SC13 recommendations



- Recommended WCPFC14 note the candidate performance indicators and monitoring strategies for each of these fisheries, and provide advice on those to be included for development of harvest strategies under CMM 2014-06.
- SC13 noted best practice to support a broad range of performance indicators in support of the multiple management objectives already identified by the Commission. There will be scope to iteratively refine both the management objectives and related performance indicators and monitoring strategies.

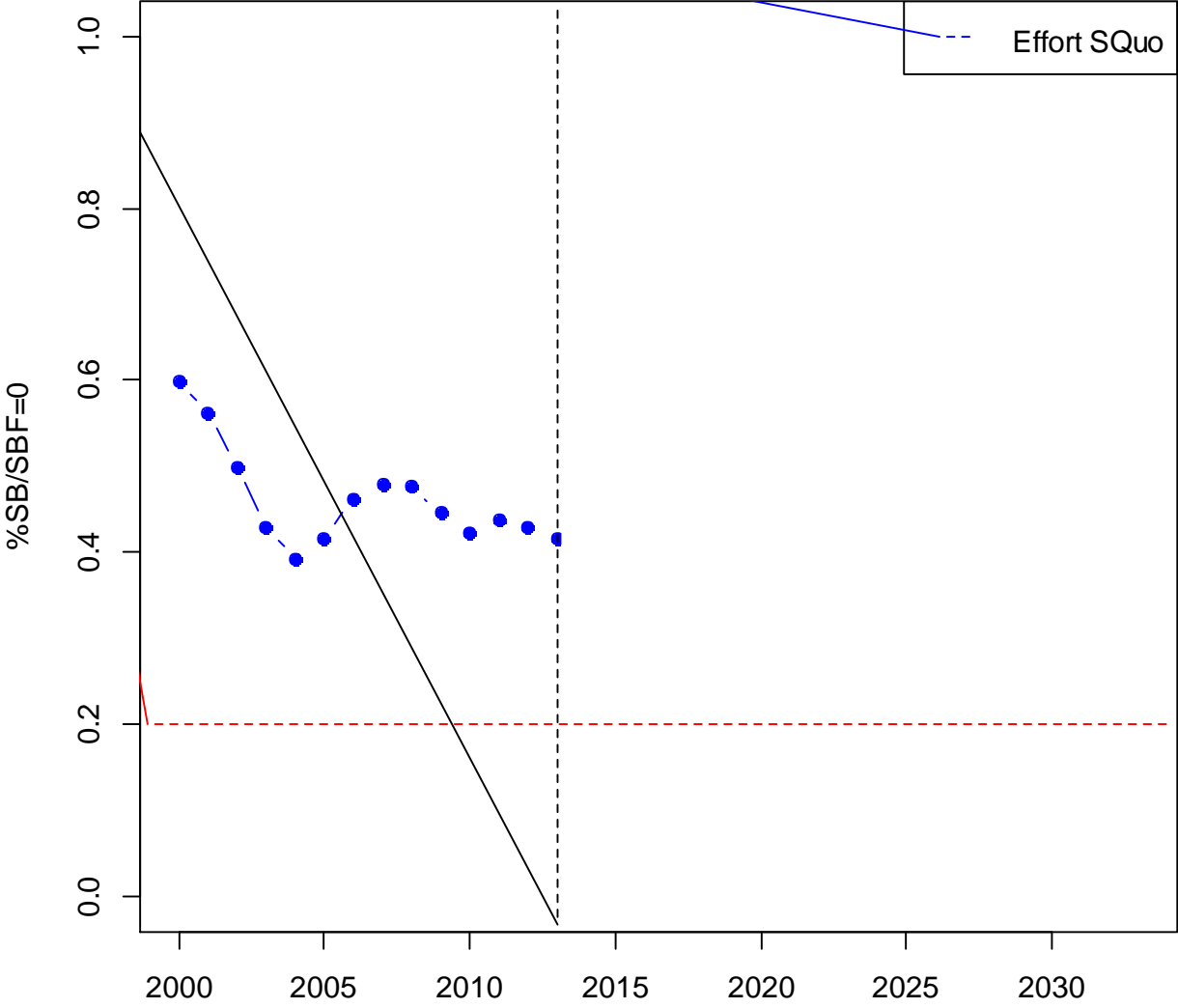
- Thanks for listening. Any questions?

SPA TRP analyses (cut down)

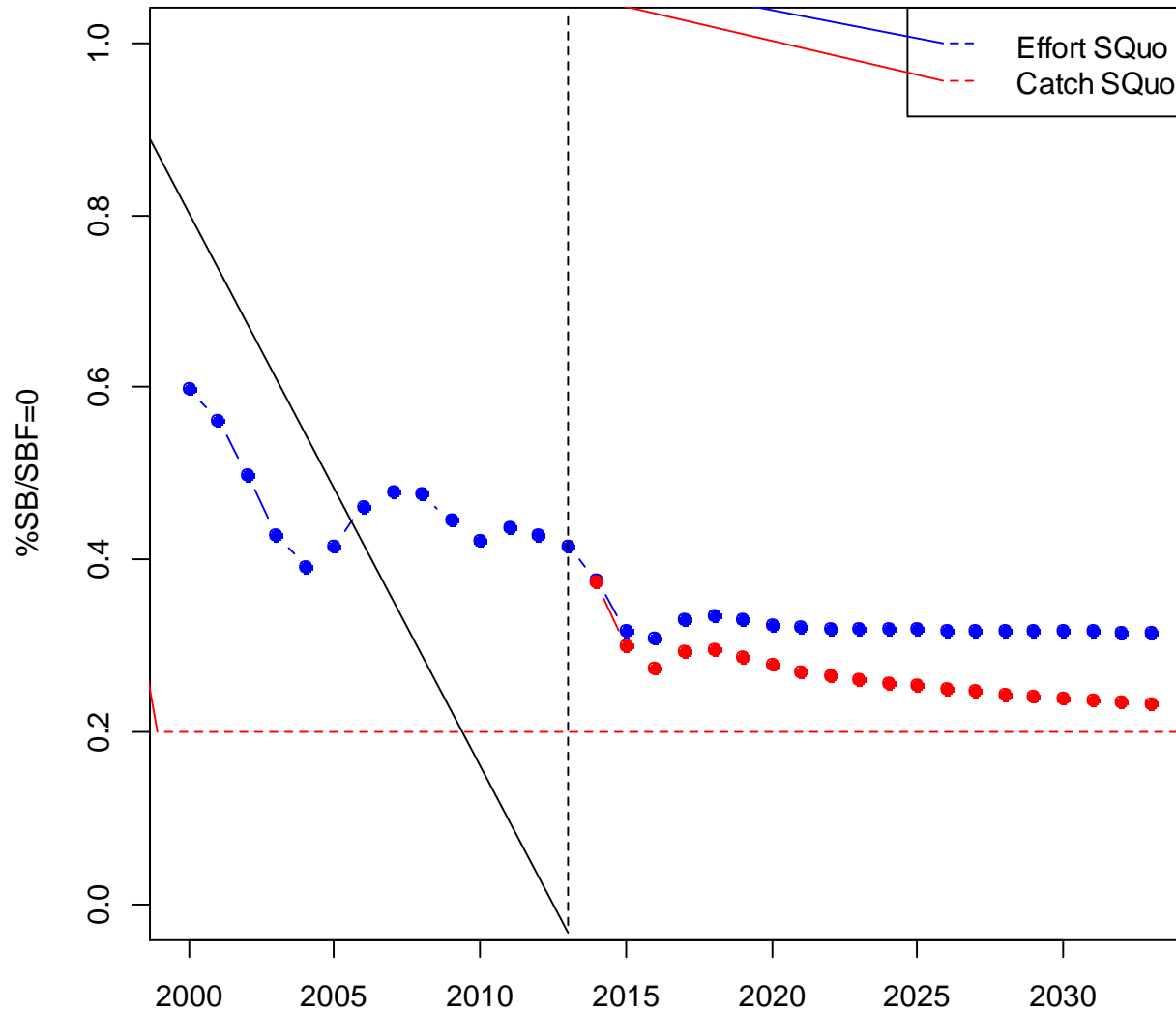
	Effort change (LL effort scalar v 2013)	Median $SB_{2033}/SB_{F=0}$	Median longline VB_{2033}/VB_{2013}	Median albacore catch (C_{2033}/C_{2013})	Risk $SB_{2033} <$ LRP
MEY					
costs \$0.9-1.3 per hook	-75%	0.59	+49%	-59%	0%
10% revenue margin over costs					
cost \$0.9 per hook	-12%	0.34	-8%	-30%	9%
cost \$1.1 per hook	-33%	0.40	+5%	-36%	0%
Break-even					
cost \$0.9 per hook	0%	0.32	-14%	-28%	20%
cost \$1.1 per hook	-23%	0.37	-1%	-33%	4%
MSY					
	+150%	0.14	-56%	-22%	74%

How to achieve a TRP

Status quo (2013)

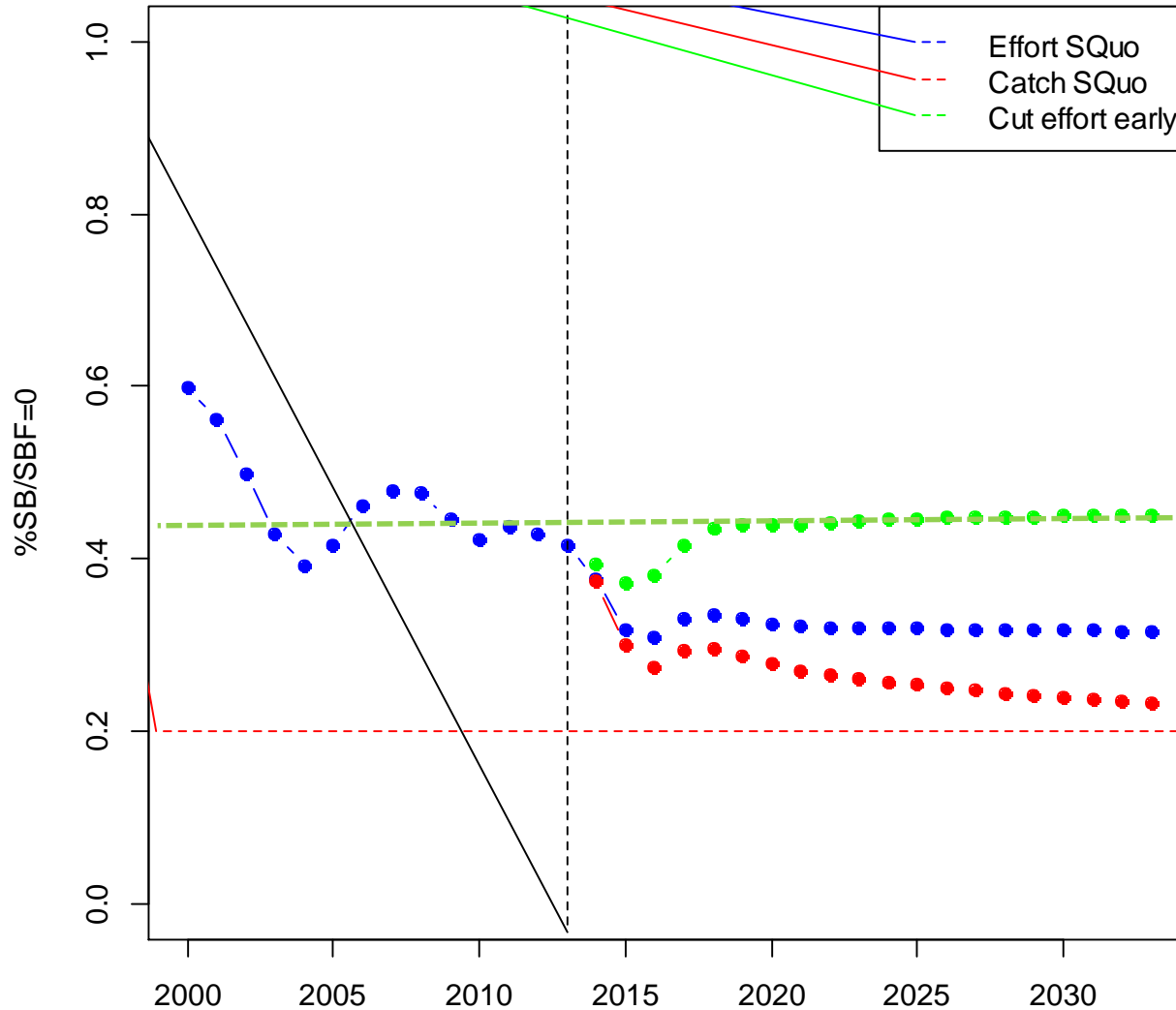


Status quo

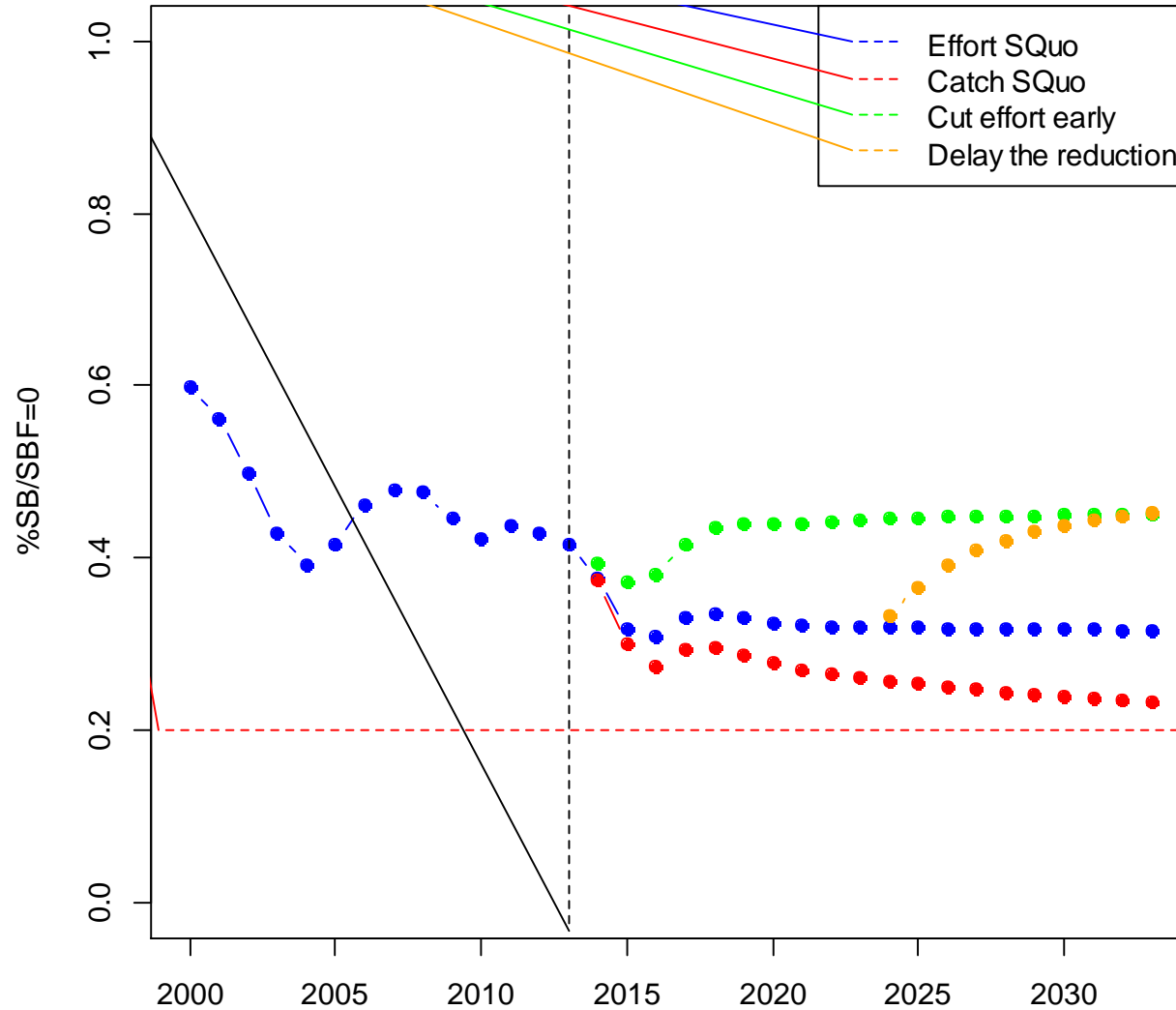


LRP Risk: 41%
Some risk of
stock collapse

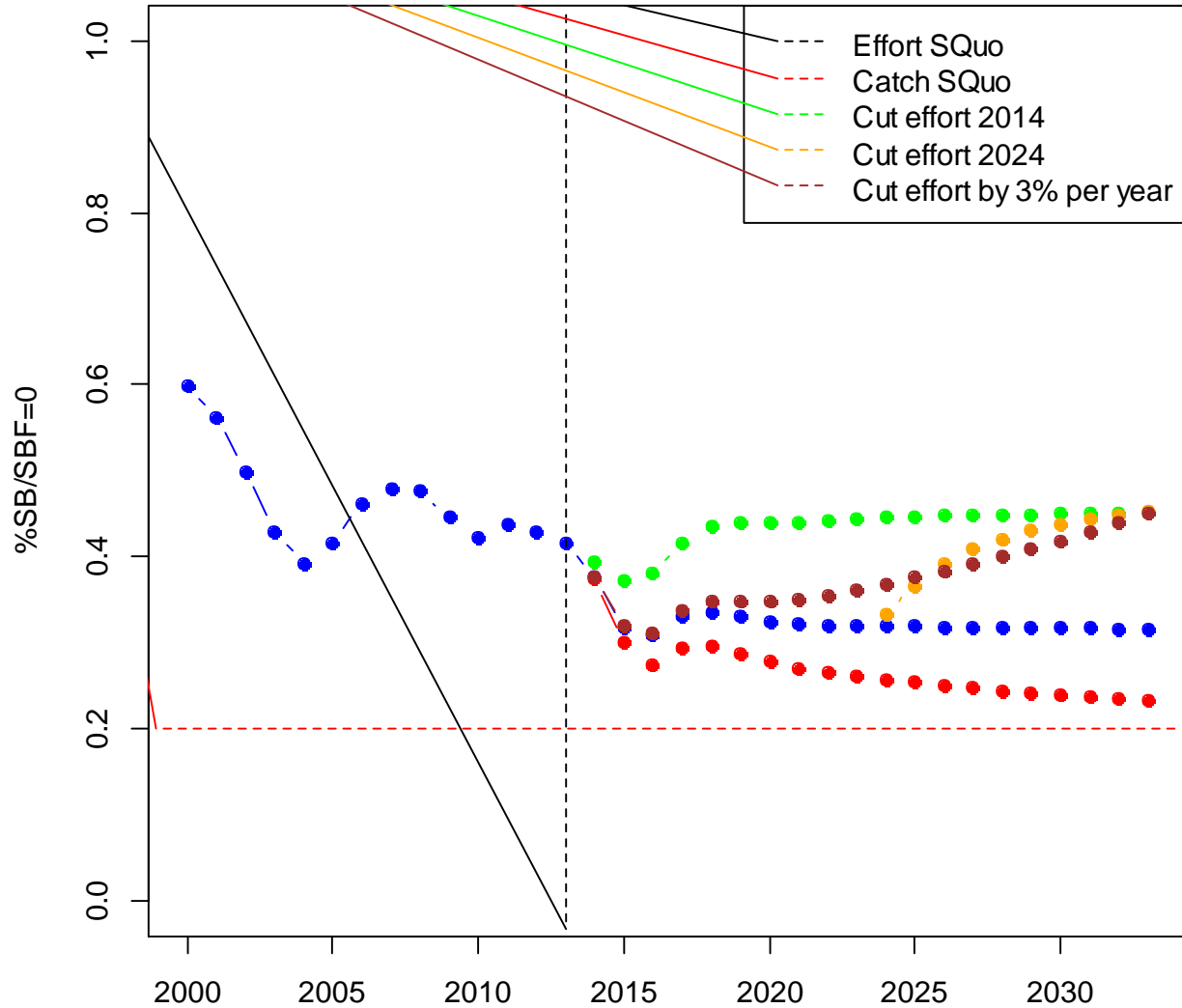
'Take reduction early'



'Delay the reduction'



'Spread the reduction'



- Thanks for listening. Any questions?

Attachment E

Trends in economic conditions in the southern longline fishery

Wez Norris FFA



FFA

Trends in economic conditions in the southern longline fishery



FFA

Economics conditions index

- Components of the economic conditions index:
 - Fish prices
 - Fishing costs (excl. license and access fee payments)
 - Catch rates
- These are combined to form the economic conditions index.
- Details are provided in SC₁₃-ST-WP-08 "Analysis and projections of economic conditions in the WCPO fisheries"



FFA

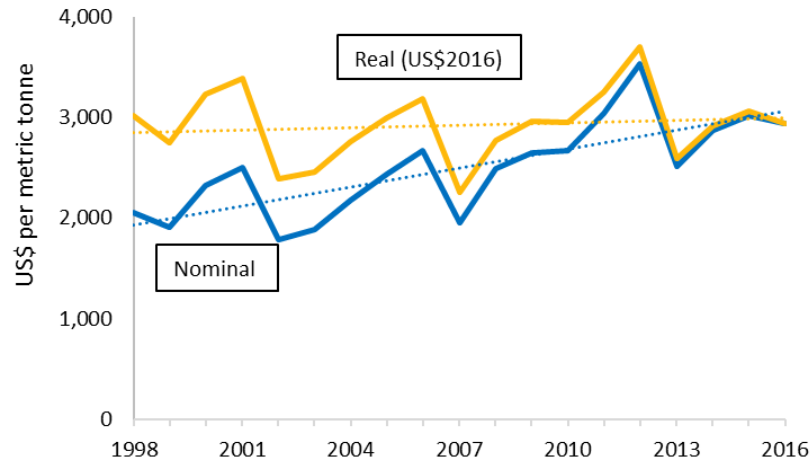
Interpreting indices

- Indices are interpreted against their average in the reference period (1998-2016 average = 100)
- Values less than 100 = below average (1998-2018) performance while values above 100 = better than average
- The economic conditions index illustrates the relative prevailing environment with regards to the generation of economic returns in the fishery. It does not address the absolute level of returns generated or how they are distributed.

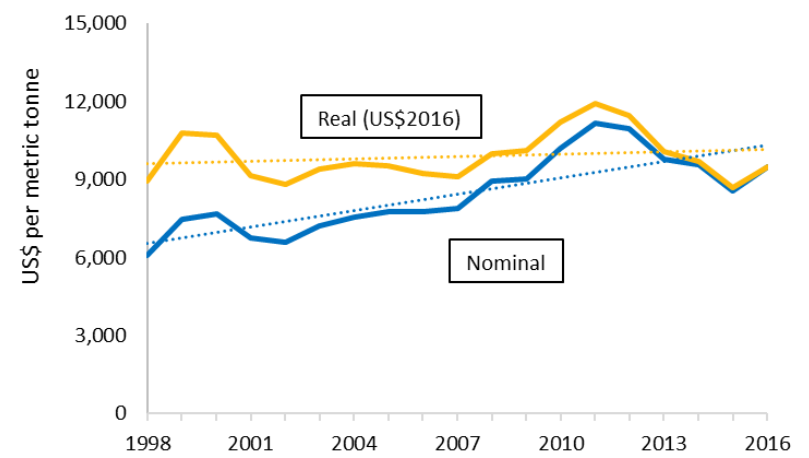


FFA

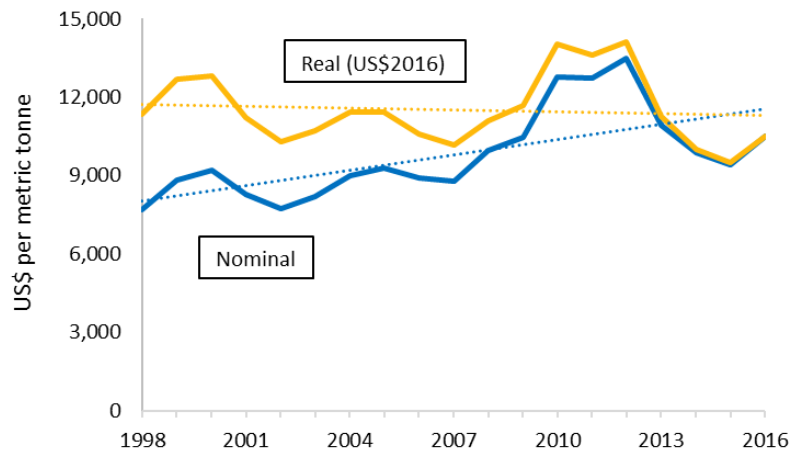
Prices



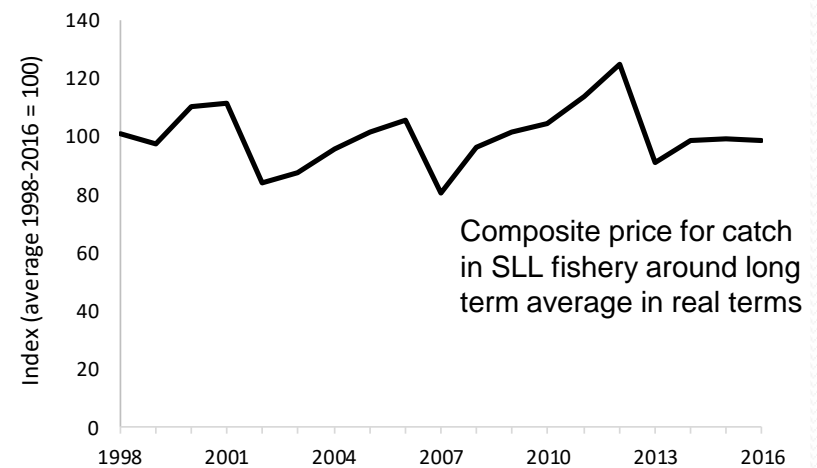
USD nominal and real prices for imports of albacore into Thailand



USD nominal and real prices for imports for Japanese yellowfin imports from Oceania



USD nominal and real prices for Japanese bigeye imports from Oceania

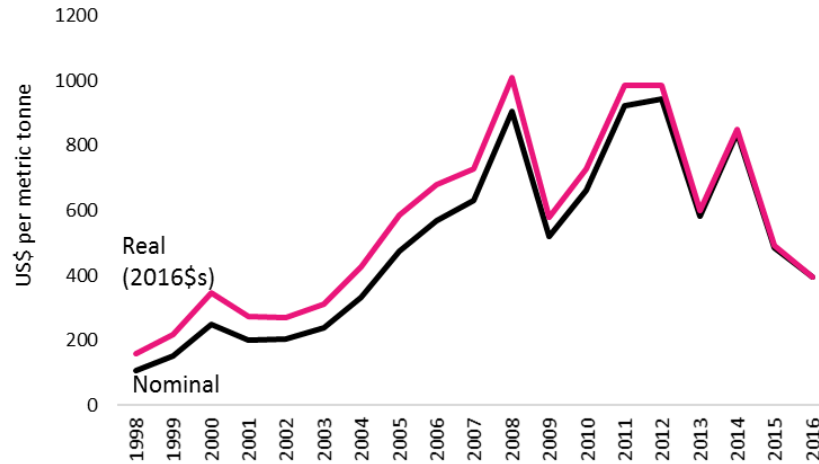


Composite price index for the southern longline fishery

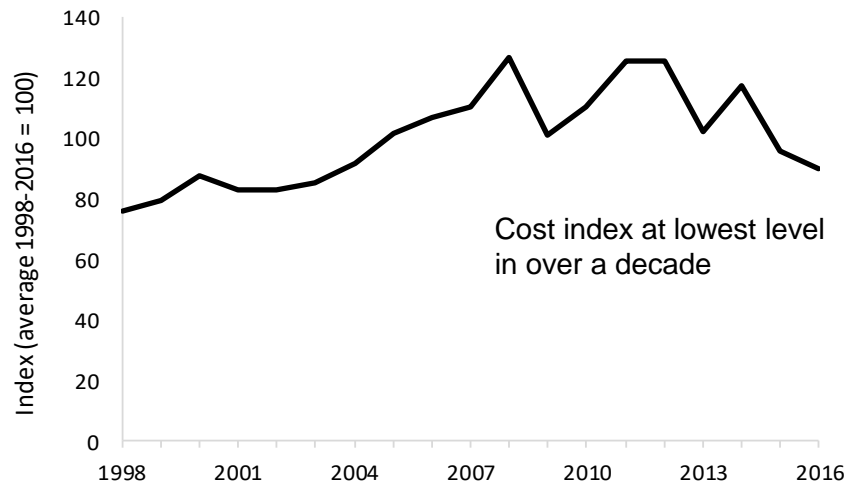


FFA

The southern longline fishery



Singapore marine diesel oil (MDO) nominal and real price series



Cost index at lowest level in over a decade

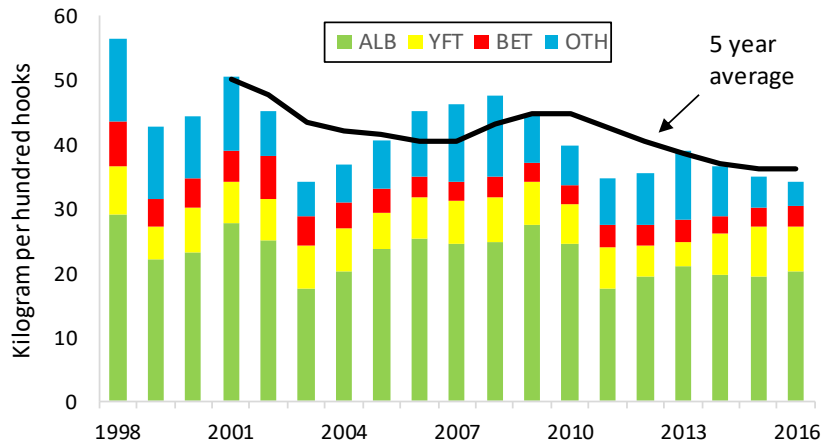
Cost index assumes non-fuel costs are constant in real terms with fuel costs varying in accordance with Singapore MDO price.

Fishing cost index for WCPO fisheries



FFA

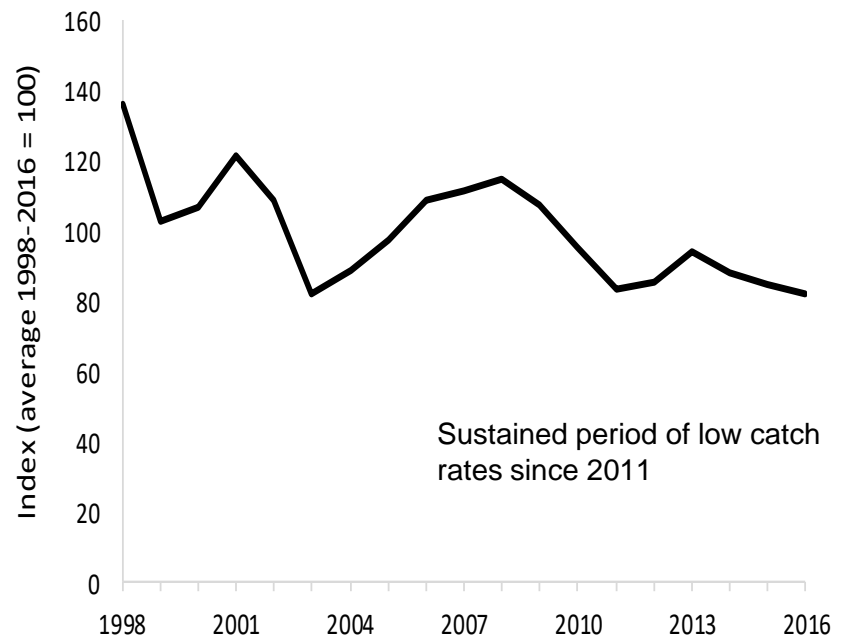
The southern longline fishery



CPUE in the southern longline fishery by species

Catch rates vary over time but general trend is one of decline with peaks and troughs occurring at lower levels.

Catch rate index in the southern longline fishery

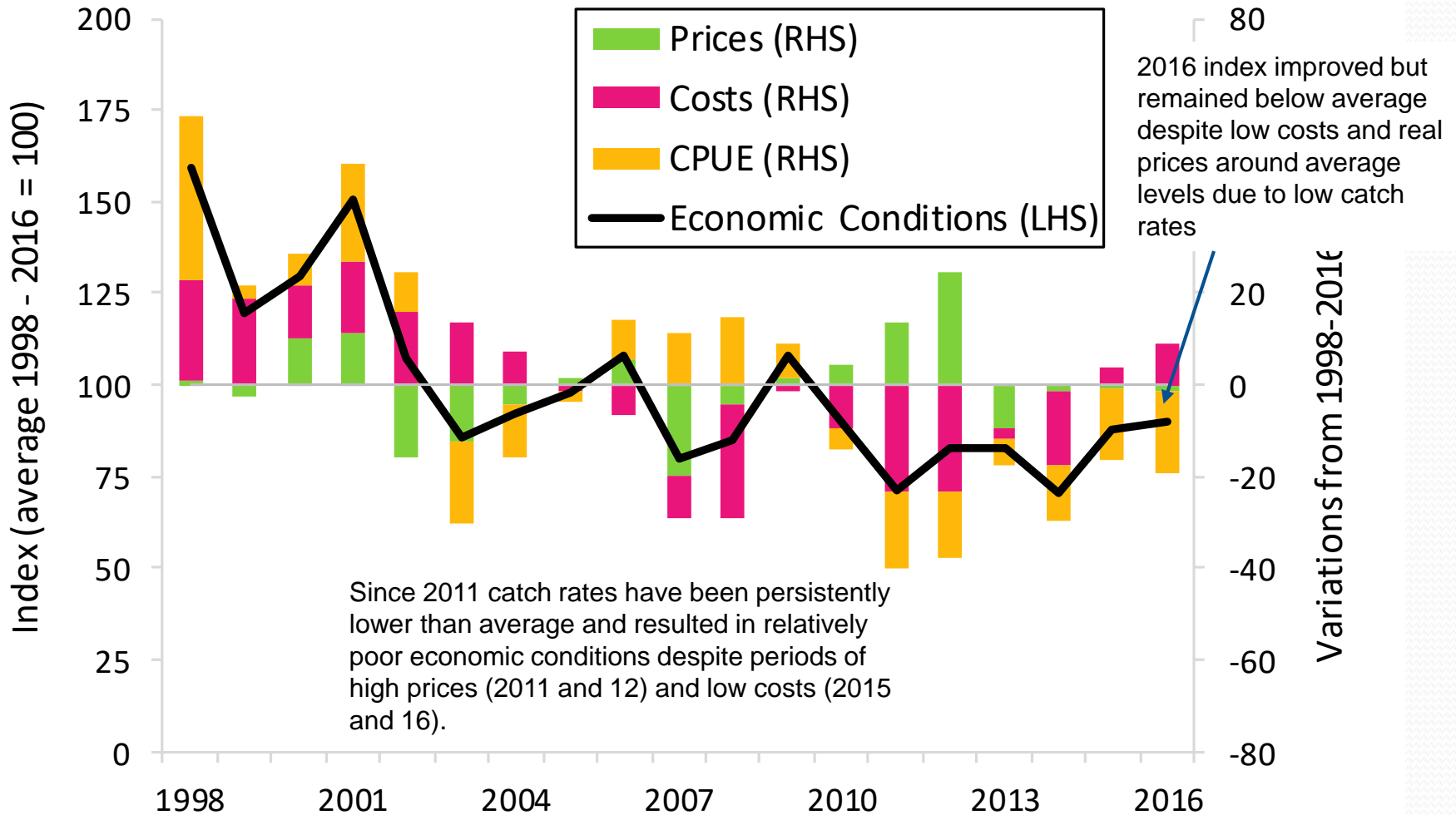


Sustained period of low catch rates since 2011



FFA

Index of economic conditions



Attachment F

WCPFC Harvest Strategy Process in relation to South Pacific Albacore

Tony Beeching WCPFC Secretariat



You are logged in as tony.beeching

Key Documents

- Convention Text
- Conservation and Management Measures
 - Harvest Strategy**
- Guidelines, Procedures and Regulations
- Relations with Other Organisations
- Other Information

WCPFC Harvest Strategy and Reference Points

Harvest Strategy CMM - 2014-06

WCPFC11 agreed to [Conservation and Management Measures to develop and implement a harvest strategy](#)

[approach for key fisheries and stocks in the WCPO](#) (326.23 KB) The objective of CMM 2014-06 is "To agree that the Commission shall develop and implement a harvest strategy approach for each of the key fisheries or stocks under the purview of the Commission according to the process set out in CMM 2014-06."

Pursuant to paragraph 13 of CMM 2014-06, WCPFC12 agreed a workplan for adoption of Harvest Strategies

under CMM 2014-06 [Workplan for the adoption of Harvest Strategies under CMM 2014-06](#) (506.05 KB)

An updated workplan was agreed at WCPFC13 and records as an annex the Harvest Strategy-related outcomes from WCPFC13 [Updated workplan on Harvest Strategies 2016 - 2019 and record of](#)

[outcomes from WCPFC13](#) (240.6 KB)

Limit reference points (LRPs)

WCPFC8 approved a number of SC7 recommendations related to limit reference points

1. The agreed working definition for LRPs is to be based on the following principles:

- they define a state of the fishery that is considered to be undesirable and which management action should avoid;
- the probability of breaching an LRP should be very low;
- management actions should be taken before the fishery falls below or is at risk of falling below an LRP.

WCPFC Harvest Strategy Work Plan

The following actions in the HS Work Plan are based on the “Elements of a harvest strategy” in paragraph 7 of CMM 2014-06:

(a) Record management objectives for the fishery or stock

(b) Agree Target Reference Point

(c) Agree acceptable levels of risk

(d) Agree monitoring strategy

(e) Develop harvest control rules

(f) Management strategy evaluation

The workplan is subject to review in 2017

MOWs and HSW

2012 MOW 1: increased the understanding of the use and application of **management objectives, indicators and reference points** and had preliminary discussions on a range of **management objectives for key fisheries**

2013 MOW2: considered a candidate list of **management objectives, performance indicators, and target reference points for each major fishery** -provided a future workplan for the development of a management framework.

2014 MOW3: generated general support for the **development of harvest strategy-based approach management framework** as outlined in the CMM proposed by FFA. The workshop provided preliminary advice on the need to implement an **effective management framework/ harvest strategy for the south pacific albacore fishery that meets management objectives**.

2015 HSW (MOW4): emphasis on HS approach to key fisheries - **HS and MSE in other RFMOs** (ICCAT, IOTC and CCSBT) - **role of MSE** in the development of HS for WCPFC fisheries - **Management implications of setting acceptable levels of risk - elements of harvest strategies (including TRPs) for South Pacific albacore** - WCPFC harvest strategy workplan, including consideration of resource implications and processes for review and amendment - how best to give effect to harvest strategies through Commission instruments and measures - options for progressing harvest strategy work, including use of existing WCPFC bodies (TCC/SPC)

WCPFC 10 Agreed the first two Management Objectives Workshops and associated ‘strawman’ document; the latter included the following candidate management objectives for the southern LL fishery

Biological	Maintain ALB and SWO biomass at or above levels that provide stock sustainability throughout their range
Economic	<p>Maximise economic yield from the fishery</p> <p>Increase fisheries-based development within developing States’ economies, especially the SIDS</p> <p>Maintain acceptable CPUE</p> <p>Optimize capacity</p> <p>Catch stability</p> <p>Maximise SIDS revenues from resource rents</p> <p>Stability and continuity of market supply</p>
Social	<p>Affordable protein for coastal communities</p> <p>Employment opportunities</p> <p>Maintain/develop domestic fishery</p> <p>Human resource development</p> <p>Avoid adverse impacts on subsistence and small scale fishers</p>
Ecosystem	<p>Minimise fishery impact on ecosystem function</p> <p>Minimise catch of non-target species</p>

2015

<ul style="list-style-type: none">• SC provide advice on implications of a range of Target Reference Points for south Pacific albacore.	<p>SC11:</p> <p>MI-WP-03 Trends in Economic Conditions in the Southern Longline Fishery (Rev.01 - 02Aug2015) (FFA & Vanuatu; economic indicators)</p> <p>MI-WP-04 Compatibility and consequences of alternative potential Target Reference Points for the south Pacific albacore stock.</p>	<p>WCPFC12</p> <p>Commission agreed to workplan for the adoption of harvest strategies under CMM 2014-06 [WCPFC12 Summary Report, Attachment Y]</p>
--	---	--

2016

Performance indicators and Monitoring strategy (d).

SC provided advice on a monitoring strategy to assess performance against reference points.

SC provided advice on a range of performance indicators to evaluate performance of harvest control rules.

Commission tasked SPC/SC to develop interim performance indicators to evaluate harvest control rules.

*[Commission agree to a **monitoring strategy** to assess performance against reference points.]*

SC12

MI-WP-01 Biological and economic consequences of alternative trajectories to achieve a candidate south Pacific albacore target reference point (**potential trajectories to achieve candidate TRPs**)

MI-WP-03 Proposal for adopting interim acceptable levels of risk for breaching limit reference points of four key tuna species in the WCPO (**risk**); SPC risk papers for previous SCs referenced here

MI-WP-04 Performance statistics and monitoring strategies for skipjack and South Pacific albacore commensurate with: candidate management objectives for the Tropical Purse Seine and Southern Longline Fisheries (**objectives, indicators, monitoring strategy for (SKJ and) SPA**)

WCPFC13

Commission agreed on interim maximum acceptable risk level for breaching the LRP (c). [see section 5 of HSW]

Commission agreed to a refined workplan for the adoption of harvest strategies under CMM 2014-06 [WCPFC13 Summary Report Attachment N]

WCPFC 13 Relevant Outputs re. SPA

WCPFC13 requested that existing analyses of the implications of different TRP levels – in terms of total catch and effort changes required – should be re-circulated to CCMs by FFA before the end of December 2016, and that **the Scientific Services Provider assist CCMs in understanding the economic implications of different TRPs for their vessels before SC13.**

WCPFC13 agreed to **defer the possible adoption of an interim Target Reference Point for the South Pacific Albacore stock**, which had originally been agreed to take place in 2015 under the Harvest Strategy Work Plan, until December 2017 at the latest.

The Commission directed **that further discussion of the TRP should take place over the course of 2017 as part of the ongoing consultative process for the development of a Bridging Measure for the Conservation and Management of the South Pacific Albacore stock**, and should include a report on progress by the Convenor of that process to the 13th WCPFC Scientific Committee.

WCPFC 13 Acceptable levels of risk (all stocks)

....**not specify, at this time, acceptable levels of risk** of breaching the limit reference point for each stock;

.....**consider any risk level greater than 20 percent to be inconsistent with the LRP related principle in UNFSA** (as referenced in Article 6 of the Convention) including that the risk of breaching limit reference points be very low; and

.....determine the acceptability of potential HCRs where the estimated risk of breaching the limit reference point is between 0 and 20%.

2017

<p>Agree Target Reference Point (b)</p> <ul style="list-style-type: none">• Commission agree a Target Reference Point for south pacific albacore. <p>Develop harvest control rules (e). And Management strategy evaluation (f).</p> <ul style="list-style-type: none">• SC provide advice on candidate harvest control rules based on agreed reference points.• Commission consider advice on progress towards harvest control rules.	<p>SC13</p> <p>MI-WP-01 Implications of a range of Target Reference Points for the south Pacific albacore stock (FFA)</p> <p>MI-WP-02 Performance indicators and monitoring strategies for South Pacific Albacore compatible with candidate management objectives for the Southern Longline Fishery.</p> <p>MI-WP-04 Developments in the MSE modelling framework.</p> <p>SC12</p> <p>MI-IP-01 Preliminary evaluation of catch-based harvest control rules for South Pacific albacore (example HCRs)</p> <p>SC13 Recommendation: Intercessional work to develop guidelines for voluntary submission of economic data</p>	<p>WCPFC14</p> <p><i>The HS workplan will be subject to review in 2017</i></p>
--	--	---

2018

<p>Develop harvest control rules (e) and Management strategy evaluation (f)</p> <ul style="list-style-type: none">• SC provide advice on performance of candidate harvest control rules.• TCC consider the implications of candidate harvest control rules.• Commission consider advice on progress towards harvest control rules.	<p>SC14</p>	<p>WCPFC15</p>
--	-------------	----------------

2019

<p>Develop harvest control rules (e) and Management strategy evaluation (f)</p> <ul style="list-style-type: none">• SC provide advice on performance of candidate harvest control rules.• TCC consider the implications of candidate harvest control rules.• Commission consider advice on progress towards harvest control rules.	<p>SC15</p>	<p>WCPFC16</p>
--	-------------	----------------

Attachment G



Consultative DRAFT

CONSERVATION AND MANAGEMENT MEASURE TO ESTABLISH A LIMIT FOR SOUTH PACIFIC ALBACORE

Conservation and Management Measure 2017 xx

In accordance with the Convention on the Conservation and Management of Highly Migratory Fish Stocks in the Western and Central Pacific Ocean:

Recalling the advice of the Scientific Committee (SC13) that fishing mortality and catch of south Pacific albacore be reduced to avoid further declines in vulnerable biomass especially for longline catches of adult albacore;

Acknowledging that the Commission has adopted CMM 2014-06 on Establishing a Harvest Strategy for Key Fisheries and Stocks in the Western and Central Pacific Ocean and a Work Plan to guide the development of key components of a Harvest Strategy, including the recording of management objectives;

Noting that a component of the stock is within the IATTC Convention Area;

Further noting that some fisheries are experiencing significant declines in profitability

Recognizing the overwhelming dependence on this species in the fisheries of Small Island Developing States and Territories, and the need to maintain and protect the profitability of these fisheries;

Noting that Article 30(1) of the Convention requires the Commission to give full recognition to the special requirements of developing States that are Parties to the Convention, in particular small island developing States and territories and possessions, in relation to the conservation and management of highly migratory fish stocks in the Convention Area and development of fisheries on such stocks;

Noting further that Article 30(2)(c) of the Convention requires the Commission to ensure that conservation and management measures do not result in transferring, directly or indirectly, a disproportionate burden of conservation action onto developing States Parties, and territories and possessions;

Desiring to implement Articles 10.3 of the Convention in a tangible way to increase the participation of Small Island Developing States in WCPO tuna fisheries;
Aware that the current state of south Pacific albacore prevents Small Island Developing States and Territories from increasing their participation in, and benefits from fisheries for resources in their exclusive economic zones and in the high seas and therefore represents a disproportionate burden stemming from the lack of compatible conservation action;

Noting Article 8(1) of the Convention requires compatibility of conservation and management measures established for the high seas and those adopted for areas under national jurisdiction;

Acknowledging that the Commission has adopted a limit reference point (LRP) for south Pacific albacore of 20% of the estimated recent average spawning biomass in the absence of fishing;

Recognising further the interactions that occur between the fisheries for bigeye, yellowfin, skipjack tuna and south Pacific albacore;

Recognising the need for improved confidence in catch monitoring and verification in longline and troll fisheries; and

Fully aware of the requirements of Articles 8 and 30 of the Convention on the need to ensure that measures adopted for high seas and EEZs are compatible, taking into account measures previously adopted by subregional fisheries management arrangements and that such measures do not result in transferring, directly or indirectly, a disproportionate burden of conservation action onto developing States Parties, and territories and possessions

Adopts, in accordance with the Articles 10 and 30 of the WCPFC Convention that:

Objectives Purpose

- 1) The purpose of this Conservation and Management Measure is to establish management and monitoring processes in fisheries for south Pacific albacore that will support the development and implementation of harvest strategy elements by:
 - a) Setting forth agreed objectives for the management of the south Pacific albacore stock;
 - a)b) Determining a work plan for development of improved monitoring mechanisms in the albacore fishery that will be necessary to;
 - i. To facilitate cooperative management of the high seas and EEZ fisheries for south Pacific albacore;
 - ii. implement an interim catch limit for the south Pacific Albacore fishery
 - iii. Set the proportion of the fishery that is to be taken on the high seas and the proportion that is to be taken within the EEZs of coastal states;
 - iv. Provide for the implementation of zone based measures that optimise economic benefits to the economies of small Island Developing States and Territories (SIDS) ~~and~~

Principles for Application

- 2) Measures to implement this conservation and management measure established for the high seas and those adopted for ~~areas under national jurisdiction~~ Exclusive Economic Zones (EEZs) shall be compatible in order to ensure comprehensive conservation and management of the south Pacific albacore stock in the Convention Area in its entirety.

General Provisions

- 3) This measure applies to all catch of albacore tuna in Exclusive Economic Zones and High Seas in the Convention Area south of the equator.
- 4) All catch and effort within EEZs shall be attributed to the coastal State or Territory. Catch and effort on the high seas shall be attributed to the flag state, except that catch and effort of vessels notified as chartered under CMM 2012-05 shall be attributed to the chartering CCM.
- 5) The Commission encourages CCMs to work individually and collectively to develop and implement additional measures in pursuit of the objectives of this CMM.

Reference points

- 6) In accordance with CMM 2014-06, CCMs shall cooperate to develop a formal Harvest Strategy for South Pacific albacore including agreeing on Target Reference Points, ~~and~~ Harvest Control rules.

Management Objectives

- 7) The Commission hereby agrees that the following management objectives for south Pacific albacore: [To be completed based on discussion in agenda item 4.1]

Improved Longline and Troll Fishery Monitoring

- 8) The Commission hereby agrees to prioritise collaborative work on the following:
 - a. Expedited adoption of data and process standards for electronic reporting of catch and effort by both vessel captains and ROP observers;
 - b. Phase-in of compulsory real-time electronic reporting commencing in [2019], recognising the need for CCMs, vessel captains and the Commission to build the capacity to use this technology;
 - c. Finalisation of a CMM that sets forth data, process and system standards of a Catch Documentation Scheme framework that will be applied to all south Pacific albacore catch by [2020];
 - d. Adoption of data and process standards for electronic monitoring (camera systems) by the end of [2018], and development of an agreed program to increase coverage of the fishery to at least 20% by [2020].
 - e. Actions to address the role that at-sea transshipment can play in masking under-reporting and misreporting, such as through increased observer coverage, e-monitoring, greater use of ports or other means by [2018].

Interim Limits and proportional shares

- 6)9) As an interim management arrangement, while a harvest strategy is being developed, members of the Commission shall cooperate to ensure that total

harvest of albacore in the South Pacific Ocean does not exceed the interim catch limit of XXXX.

~~7~~10) Consistent with paragraphs 3 and 7 this interim limit shall be allocated between the high seas and EEZs in the following proportion:

EEZ	High Seas ¹
XX%	XX%

Compliance with ~~current~~ previous CMMs

~~8~~11) Other than SIDS, CCMs that catch South Pacific albacore shall not increase the number of their fishing vessels fishing for South Pacific albacore in the Convention Area south of 20°S above the 2005 levels or above 2000-2004 levels.

Implementation

~~9~~12) Members are to cooperate to ensure that the collective limits established for the high seas (noting footnote 1) and the collective limit for EEZs are not exceeded and report to WCPFC on the mechanisms agreed to achieve this.

~~10~~ ~~[Mechanisms for monitoring and compliance are to be developed. For example: Obligations on the Commission to monitor and report on implementation]~~
~~Monitoring and~~

Contribution to research

~~11~~13) CCMs that actively fish for South Pacific albacore in the Convention Area south of the equator shall cooperate to ensure the long-term sustainability and economic viability of the fishery for South Pacific albacore, including cooperation and collaboration on research to reduce uncertainty with regard to the status and limits of this stock.

Review

~~12~~14) The Commission shall review this CMM annually to ensure that the various provisions are having the intended effect.

¹ Until such time as more formal arrangements can be established, including allocation of high seas limits amongst all relevant CCMs, the high seas proportion shall be set for fleets of non-SIDS only.

Attachment H



Consultative DRAFT

CONSERVATION AND MANAGEMENT MEASURE TO ESTABLISH A LIMIT FOR SOUTH PACIFIC ALBACORE

Conservation and Management Measure 2017 xx

In accordance with the Convention on the Conservation and Management of Highly Migratory Fish Stocks in the Western and Central Pacific Ocean:

Recalling the advice of the Scientific Committee (SC13) that fishing mortality and catch of south Pacific albacore be reduced to avoid further declines in vulnerable biomass especially for longline catches of adult albacore;

Acknowledging that the Commission has adopted CMM 2014-06 on Establishing a Harvest Strategy for Key Fisheries and Stocks in the Western and Central Pacific Ocean and a Work Plan to guide the development of key components of a Harvest Strategy, including the recording of management objectives;

Noting that a component of the stock is within the IATTC Convention Area;

Further noting that some fisheries are experiencing significant declines in profitability

Recognizing the overwhelming dependence on this species in the fisheries of Small Island Developing States and Territories, and the need to maintain and protect the profitability of these fisheries;

Noting that Article 30(1) of the Convention requires the Commission to give full recognition to the special requirements of developing States that are Parties to the Convention, in particular small island developing States and territories and possessions, in relation to the conservation and management of highly migratory fish stocks in the Convention Area and development of fisheries on such stocks;

Noting further that Article 30(2)(c) of the Convention requires the Commission to ensure that conservation and management measures do not result in transferring, directly or indirectly, a disproportionate burden of conservation action onto developing States Parties, and territories and possessions;

Desiring to implement Articles 10.3 of the Convention in a tangible way to increase the participation of Small Island Developing States in WCPO tuna fisheries;
Aware that the current state of south Pacific albacore prevents Small Island Developing States and Territories from increasing their participation in, and benefits from fisheries for resources in their exclusive economic zones and in the high seas and therefore represents a disproportionate burden stemming from the lack of compatible conservation action;

Noting Article 8(1) of the Convention requires compatibility of conservation and management measures established for the high seas and those adopted for areas under national jurisdiction;

Acknowledging that the Commission has adopted a limit reference point (LRP) for south Pacific albacore of 20% of the estimated recent average spawning biomass in the absence of fishing;

Recognising further the interactions that occur between the fisheries for bigeye, yellowfin, skipjack tuna and south Pacific albacore;

Recognising the need for improved confidence in catch monitoring and verification in longline and troll fisheries; and

Fully aware of the requirements of Articles 8 and 30 of the Convention on the need to ensure that measures adopted for high seas and EEZs are compatible, taking into account measures previously adopted by subregional fisheries management arrangements and that such measures do not result in transferring, directly or indirectly, a disproportionate burden of conservation action onto developing States Parties, and territories and possessions

Adopts, in accordance with the Articles 10 and 30 of the WCPFC Convention that:

Purpose

- 1) The purpose of this Conservation and Management Measure is to establish management and monitoring processes in fisheries for south Pacific albacore that will support the development and implementation of harvest strategy elements by:
 - a) Setting forth agreed objectives for the management of the south Pacific albacore stock;
 - b) Determining a work plan for development of improved monitoring mechanisms in the albacore fishery that will be necessary to;
 - i. To facilitate cooperative management of the high seas and EEZ fisheries for south Pacific albacore;
 - ii. implement an interim catch limit for the south Pacific Albacore fishery
 - iii. Set the proportion of the fishery that is to be taken on the high seas and the proportion that is to be taken within the EEZs of coastal states;
 - iv. Provide for the implementation of zone based measures that optimise economic benefits to the economies of small Island Developing States and Territories (SIDS).

Principles for Application

- 2) Measures to implement this conservation and management measure for the high seas and those adopted for Exclusive Economic Zones (EEZs) shall be compatible in order to ensure comprehensive conservation and management of the south Pacific albacore stock in the Convention Area.

General Provisions

- 3) This measure applies to all catch of albacore tuna in Exclusive Economic Zones and High Seas in the Convention Area south of the equator.
- 4) All catch and effort within EEZs shall be attributed to the coastal State or Territory. Catch and effort on the high seas shall be attributed to the flag state, except that catch and effort of vessels notified as chartered under CMM 2012-05 shall be attributed to the chartering CCM.
- 5) The Commission encourages CCMs to work individually and collectively to develop and implement additional measures in pursuit of the objectives of this CMM.

Reference points

- 6) In accordance with CMM 2014-06, CCMs shall cooperate to develop a formal Harvest Strategy for South Pacific albacore including agreeing on Target Reference Points, Harvest Control rules.

Management Objectives

- 7) The Commission hereby agrees that the following management objectives for south Pacific albacore: **[To be completed based on discussion in agenda item 4.1]**

Improved Longline and Troll Fishery Monitoring

- 8) The Commission hereby agrees to prioritise collaborative work on the following:
 - a. Expedited adoption of data and process standards for electronic reporting of catch and effort by both vessel captains and ROP observers;
 - b. Phase-in of compulsory real-time electronic reporting commencing in [2019], recognising the need for CCMs, vessel captains and the Commission to build the capacity to use this technology;
 - c. Finalisation of a CMM that sets forth data, process and system standards of a Catch Documentation Scheme framework that will be applied to all south Pacific albacore catch by [2020];
 - d. Adoption of data and process standards for electronic monitoring (camera systems) by the end of [2018], and development of an agreed program to increase coverage of the fishery to at least 20% by [2020].
 - e. Actions to address the role that at-sea transshipment can play in masking under-reporting and misreporting, such as through increased observer coverage, e-monitoring, greater use of ports or other means by [2018].

Interim Limits and proportional shares

- 9) As an interim management arrangement, while a harvest strategy is being developed, members of the Commission shall cooperate to ensure that total

harvest of albacore in the South Pacific Ocean does not exceed the interim catch limit of XXXX.

- 10) Consistent with paragraphs 3 and 7 this interim limit shall be allocated between the high seas and EEZs in the following proportion:

EEZ	High Seas ¹
XX%	XX%

Compliance with previous CMMs

- 11) Other than SIDS, CCMs that catch South Pacific albacore shall not increase the number of their fishing vessels fishing for South Pacific albacore in the Convention Area south of 20°S above the 2005 levels or above 2000-2004 levels.

Implementation

- 12) Members are to cooperate to ensure that the collective limit established for the high seas (noting footnote 1) and the collective limit for EEZs are not exceeded and report to WCPFC on the mechanisms agreed to achieve this.

Contribution to research

- 13) CCMs that actively fish for South Pacific albacore in the Convention Area south of the equator shall cooperate to ensure the long-term sustainability and economic viability of the fishery for South Pacific albacore, including cooperation and collaboration on research to reduce uncertainty with regard to the status and limits of this stock.

Review

- 14) The Commission shall review this CMM annually to ensure that the various provisions are having the intended effect.

¹ Until such time as more formal arrangements can be established, including allocation of high seas limits amongst all relevant CCMs, the high seas proportion shall be set for fleets of non-SIDS only.