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COOK ISLANDS



WESTERN AND CENTRAL PACIFIC FISHERIES COMMISSION

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August 9 – 17, 2017

Rarotonga, Cook Islands

COOK ISLANDS

Annual Fisheries Report

Scientific data was provided to the Commission	
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1. Abstract

The 2016 Cook Islands National Fleet consisted of fourteen longline and four bunker vessels operating within the WCPFC Convention Area, south of the equator. Overall fishing effort in number of hooks decreased by 15% since 2015 despite the total catch of primary species¹ (1,862 mt) was consistent with 2015 catch levels. Albacore accounted for 66% (1,265 mt) of the total longline catch within the Convention Area, followed by Yellowfin at 16% (314 mt) and Bigeye at 10% (183 mt). All National Fleet longline catch estimates are total catch estimates based on available data.

No vessels carried out Marlin specific targeting and all catches of Marlin species were taken as bycatch in the Albacore longline fishery. Blue Marlin was the most frequently caught billfish species in 2016. 108 mt of catch was reported in the artisanal fishery which extends across all 12 inhabited islands of the Cook Islands. Yellowfin tuna is the dominant catch of the artisanal fishery and is typically caught by trolling, hand lining and spearfishing. Artisanal fishery data is un-raised and based on reported catch only.

In 2016 the Cook Islands authorised two Korean purse seine vessels in addition to the US Multilateral Treaty to operate within its Exclusive Economic Zone. The total purse seine catch estimate in the Cook Islands EEZ (CK EEZ) was 6,898 mt. The Cook Islands has declared a purse seine limit for its EEZ of 1,250 days.

The retention of any shark or shark parts within the Cook Islands EEZ is prohibited. Minimal shark retention is therefore taken by flagged vessels fishing in areas beyond national jurisdiction, with the exception of Silky sharks and Oceanic White Tip sharks where retention is prohibited.

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¹ Primary species for longline gear is described as Albacore, Yellowfin, Bigeye, Pacific Bluefin and Skipjack tuna, Black Marlin, Blue Marlin, and Striped Marlin and Swordfish

2. Bakground

In 2016, the Cook Islands fishery consisted of longline fishing vessels targeting tuna and tuna-like species. There is a significant artisanal fishery operating from each of the 12 inhabited islands and a historical troll fishery that existed in the mid 2000's. The majority of the longline fishing activity is concentrated in the Northern Cook Islands waters, north of 15°S. Some longline fishing also occurs in other areas of national jurisdiction within the WCPFC-CA. Historically, purse seine fishing was conducted in the CK EEZ by US Treaty vessels only. Recently, in 2015, the Cook Islands entered into a number of purse seine bilateral agreements with Korea and New Zealand and this was the first year that purse seine fishing occurred outside the scope of the US Multilateral Treaty. A Fisheries Partnership Agreement was made with the European Union (EU) which subsequently resulted in the authorisation of EU purse seine vessels to fish in Cook Islands waters from January 2017.

Albacore tuna is the primary target species for Cook Island flagged longline vessels fishing in the WCPFC-CA. These vessels are typically based out of foreign ports in Pago Pago and Apia. Catches are mostly unloaded directly to the canneries. They may also unload by-catch species in Apia, and in the Cook Islands for the domestic market, or export via local Cook Island agents.

Three small locally based vessels operate out of Rarotonga and target a range of species, catering mainly for the local market with some exports to Japan, New Zealand and the USA. These vessels are below 80 GRT and typically operate within 100nm of Rarotonga.

As of December 2012, the entire CK EEZ was declared a shark sanctuary, prohibiting the targeting or retention of any shark species.

3. FLAG SATE REPORTING

3.1 Catch and Effort Trends

Total longline effort in the WCPFC-CA is approximately 5.4 million hooks (Table 1a), with approximately 4.2 million hooks of effort attributed to the CK EEZ (Table 1b). The total 2016 National Fleet catch of tuna and billfish within the Convention Area has decreased from previous years and is below the 2012-2015 average (Figure 1). The peak in total catch and effort during 2012 is attributed to the 17 additional chartered longline vessels introduced for a Bigeye and Swordfish Exploratory Program (Figure 1). The majority of Cook Islands fleet catches are taken within the CK EEZ with only 19% taken beyond this area in 2016 (Table 1b).

Albacore remains the primary catch species of the Cook Islands National Fleet within the WCPFC-CA, comprising 66% of the total catch in 2016, representing a 5% increase in Albacore catch composition since 2015. Yellowfin tuna catch composition decreased by 3% from 2015 to 2016, and Bigeye catch composition remained steady at 8% of the total National Fleet catch (Table 1a).

The Cook Islands artisanal fleet operates from each of the 12 inhabited islands. Yellowfin tuna is the main pelagic target species of the artisanal fishery with more than 77 mt of Yellowfin tuna caught in 2016 (Table 1a). Trolling, handlining, and spearfishing are the most common fishing methods used by artisanal fishers. There is currently no mandate for artisanal fishers to provide catch and effort data, therefore all artisanal data is un-raised and based only on reported catches from each of the 12 inhabited islands.

From June 2017, the Ministry of Marine Resources (MMR) announced a fuel subsidy program for artisanal fisherman activity. The rationale for this subsidy is the increasing costs of fishing reported by artisanal fisherman and the impacts this has on food security and local communities. The subsidy is partially funded by the Government of the Cook Islands and the European Union through the Sustainable Partnership Agreement (SPA) fund. While logsheet data collection has improved, there has been a lack of fishing logsheet submissions supplied to MMR. Due to the geographic location of some islands, particularly in the northern group, the transportation of logsheets to Rarotonga for processing into the artisanal database is ineffective. There are data gaps in terms of understanding the fishing effort within the Cook Islands artisanal fisheries. Such information is vital to establish total catch, catch-effort and as a means to determine fuel subsidy allocations. MMR anticipates improved coverage in artisanal data collections with the introduction of E-Reporting initiatives such as the Pacific Community (SPC) 'Tails' application, which synchronises artisanal catch data to the database automatically from mobile devices. A significant outcome of this is that the technology can operate with limited internet connectivity and provides a solution to the problems of geographic isolation that is experienced on many islands.

Wahoo is the dominant catch species out of the non-target tuna species of the longline fishery. Wahoo catches total 33 mt in 2016 and was the second most frequently caught species (Table 2) in the artisanal fishery.

Table 1a. Annual catch in metric tonnes (mt) and effort estimates for the <u>National Fleet</u> by gear (LL = longline; TL = Troll; AT = Artisinal) and primary species in the <u>WCPFC Convention Area</u>, 2012 – 2016. Longline catch estimates are raised using VMS data and nominal artisanal catches are not raised.

Year	Gear	Effort	ALB	BET	YFT	SKJ	PBF	BLM	BUM	MLS	SWO
2012	LL	156,684 Hhks	2,757	1624	693	308	0	37	93	28	140
2013	LL	62,244 Hhks	1,354	208	346	40	0	11	35	12	16
	LL	53,644 Hhks	1,186	184	504	137	0	11	30	19	14
2014	TL	9,200 Hk Hrs	21	0	0	0	0	0	0	0	0
	AT	32,349 Hrs	2.54	0.28	116	15.67	0	0.2	6.85	0	0.14
2015	LL	61,826 Hhks	1,167	151	339	86	0	15	36	19	18
2013	AT	18,713 Hrs	1.27	0.32	92.2	11.33	0	0	0.8	0	0
2016	LL	54,382 Hhks	1,265	183	314	37	1	16	43	19	23
2016	AT	14, 965 Hrs	6.79	0.07	76.75	6.79	0	0	0.38	0.07	0.09

Table 1b. Annual catch estimates in metric tonnes for the <u>National Fleet</u> by gear and primary species <u>within and beyond national jurisdiction</u> in 2016. Operational logsheet data is raised using VMS data. Nominal artisanal data is not raised.

Area	Gear	Effort	ALB	BET	YFT	SKJ	PBF	BLM	BUM	MLS	SWO
CK EEZ	LL	41,971 Hhks	928. 6	81.2	188	22	1	16	16	15	17
CREEZ	АТ	18,713 Hrs	1.27	0.32	92.2	11.3 3	0	0	0.8	0	0
Beyon d CK EEZ	LL	12,411 Hhks	336. 4	101. 8	126	15	0	0	27	4	6

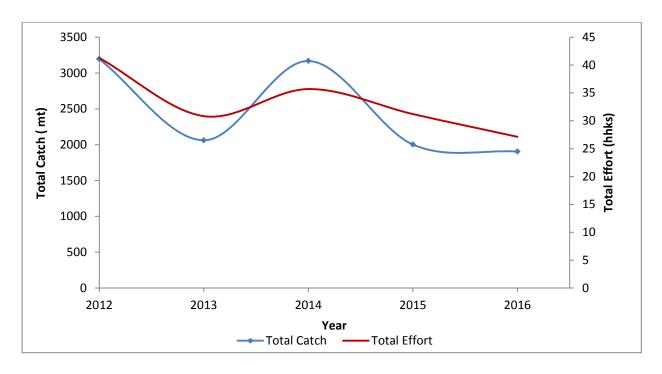


Figure 1. Historical total annual catch estimates for the National Longline Fleet for the WCPFC Convention Area, 2011 – 2016.

<u>Table 1c. Annual un-raised catch estimates in metric tonnes for the National Longline Fleet, by primary species and broad ocean area for 2016.</u>

Area	Year	ALB	BET	YFT	SKJ	PBF	BUM	BLM	MLS	swo
	2012	2,967.19	1,603.35	713.10	310.97	1.25	95.44	29.43	36.352	124.383
1. WCPFC	2013	1,341.04	200.20	337.83	38.74	0.09	33.47	13.33	11	17.578
Conventio	2014	1,186.20	184.15	504.95	137.90	0.37	30.93	11.33	19.55	14.91
n Area	2015	1,167	151	339	86	0	15	36	19	18
	2016	962	123	229	31	1	22	14	16	17
2. WCPFC	2012	2,967.19	1,603.35	713.10	310.97	1.25	95.44	29.43	36.352	124.383
Conventio	2013	1,341.04	200.20	337.83	38.74	0.09	33.47	13.33	11	17.578
n Area (Sth of Equator)	2014	1,186.20	184.15	504.95	137.90	0.37	30.93	11.33	19.55	14.91
or Equator,	2015	1,167	151	339	86	0	15	36	19	18
	2016	961	112	224	31	1	19	21	16	16
3. WCPFC	2012	0.735	56.371	4.515	0	0.024	2.672	0	0.446	5.852
Conventio	2013	-	-	-	-	-	-	-	-	-
n Area	2014	-	-	-	-	-	-	-	-	-
(Nth of	2015	-	-	-	-	-	-	-	-	-
Equator)	2016	0.3	10.5	3.9	0.1	0	1.2	0	0.1	0.3

Ocean		112		31	_	13		10	10	
6. South Pacific	961	112	224	31	1	19	21	16	16	16
	2015	1,167	151	339	86	0	15	36	19	18
	2014	1,186.20	184.15	504.95	137.90	0.37	30.93	11.33	19.55	14.91
	2013	1,341.04	200.20	337.83	38.74	0.09	33.47	13.33	11	17.578
	2012	2,967.19	1,603.35	713.10	310.97	1.25	95.44	29.43	36.352	124.383
	2016	0.3	10.5	3.9	0.1	0	1.2	0	0.1	0.3
Ocean	2015	-	-	-	-	-	-	-	-	
Pacific	2014	-	-	-	-	-	-	-	-	-
5. North	2013	-	-	-	-	-	-	-	-	-
	2012	0.735	56.371	4.515	0	0.024	2.672	0	0.446	5.852
	2016	962	123	229	31	1	22	14	16	17
Alea	2015	1,167	151	339	86	0	15	36	19	18
4. WCPO Area	2014	1,186.20	184.15	504.95	137.90	0.37	30.93	11.33	19.55	14.91
4 14/600	2013	1,341.04	200.20	337.83	38.74	0.09	33.47	13.33	11	17.578
	2012	2,967.19	1,603.35	713.10	310.97	1.25	95.44	29.43	36.352	124.383

Table 2. Annual catch estimates in metric tonnes for the <u>National Fleet</u> in the <u>WCPFC Convention Area</u> for non-target and by-catch species (including key shark species²) for 2016. Shark estimates are raised using logsheet catch estimates; nominal artisanal catches are not raised.

Gear	SSP	SFA	DOL	LAG	OIL	WAH	BSH	FAL	ocs	MAK	THR	SPZ	RHN
LL	36	0	18	4	0	40	1829	53	513	93	12	0	0
Artisanal	0.012	0.05	3.308	0.12	0.05	8.51	0	0	0	0	0	0	0

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² Key species include BSH, FAL, OCS, MAK, THR, SPZ, and RHN. Shark species are recorded by catch numbers

3.2 Catch and Effort Spatial Distribution

In 2016, around 77% of all National Fleet longline fishing effort took place within the CK EEZ. There was a 12% decrease in in-zone fishing effort of the National Fleet compared to 2015. This was attributed to one longliner deregistering and low catch rates during 2016. In-zone effort from the National Fleet is quite distinct between the northern and southern group fisheries, delineated at 15°S. There is a prominent band of fishing effort from the north-west and central northern regions of the CK EEZ with increased Yellowfin and Albacore catches west of Pukapuka. This pattern is typically attributed to the fact that most Cook Island flagged vessels operate out of Pago Pago, American Samoa, conducting shorter, more frequent trips to the CK EEZ and therefore reducing operational costs. Approximately 11% of the total National Fleet fishing catch was taken within Tokelauan waters and a further 12% in Samoan waters. A small amount of effort around Rarotonga is ascribed by a small domestic fleet that operates out of Avatiu (Figure 3a, 3b, 3c).

The 2016 annual catch and effort distribution (Figure 3a) follows a similar spatial trend to that of 2015 (Figure 3b), with the most effort being concentrated between the CK EEZ and the American Samoa EEZ. The majority of catch remains in the northern region of the Cook Islands EEZ, with notable increase in Albacore catch from 2014-2016 and increased Bigeye and Yellowfin Tuna from the locally domestic fleet operating dominantly south of Rarotonga (Figure 3a, 3b).

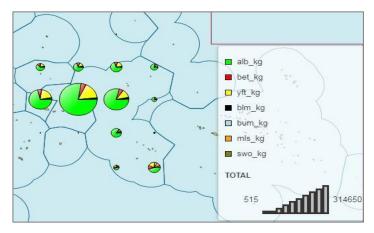


Figure 3a. Catch distribution (1 \times 1) of key tuna species for the National Longline Fleet within the WCPFC-CA 2016.

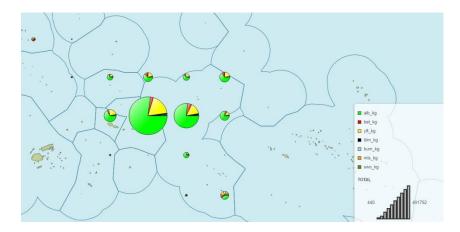


Figure 3b. Catch distribution (1 x 1) of key tuna species for the National Longline Fleet within the WCPFC-CA 2015.

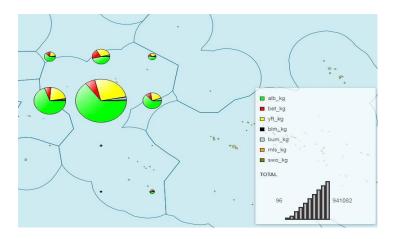


Figure 3c. Catch distribution (1 x 1) of tuna species for the National Longline Fleet within the WCPFC-CA 2014.

3.3 Licencing and Fleet Structure

In 2016, the Cook Islands National fleet consisted of 14 longline vessels and four bunker vessels operating within the WCPFC-CA. 11 of the 14 flagged longline vessels were active and authorised to fish within the Convention Area. Among these, three domestically based vessels were licenced to fish within national jurisdiction only. Twelve vessels were authorised to fish both within the CK EEZ and the high seas (though rarely fished beyond the waters of national jurisdiction) and an additional two longline vessels were authorised to fish on the high seas and were licenced in both Samoa and Tokelau. The majority of the National Fleet vessels were between 51 and 200 GRT (Table 3). All National Fleet vessels licenced to fish in-zone are prohibited to fish within 12 nm (territorial seas) of all islands and 24 nm of Rarotonga. Purse seine vessels are prohibited to fish within 24 nm of all islands and 48 nm of Rarotonga. A total of 292 registered artisanal vessels actively fished throughout the Cook Islands in 2016. As of December 2016, the Cook Islands commercial longline fishery was limited to a maximum of 50 authorised vessels within the CK EEZ.

Table 3. Number of <u>National Fleet</u> vessels by gear, size and authorised area, active within the WCPFC Convention Area 2011-2016.

Year	00-50	0 GRT	51-200 GRT		201-500 GRT	500+	GRT	Total	
Tear	LL	Artisanal	LL	Troll	LL	LL	Bunker	IOtai	
2012	2	286	19		3	0		24	
2013	2	358	19		3	0		24	
2014	0	420	12	1	1	0		14	
2015	0	315	10		1	1	3	15	
2016	0	292	10	2	1	0	4	15	

4. COASTAL STATE REPORTING

4.1 Catch and Effort Trends

The Cook Islands purse seine fishery has been limited to 1,250 fishing days as well as 30,000 mt of Skipjack catch limit as notified to the WCPFC in any consecutive 4 quarter period. Foreign flagged longline vessel catch within the CK EEZ totalled 4,681 mt (Table 4), comprising 81% of the total catch. Cook Island flagged vessels accounted for the remaining 19% of the total catch (Figure 4a). Albacore comprised 53% of the foreign flagged catch composition, followed by Yellowfin tuna (27%) and Bigeye (11%) (Figure 4b).

The US Fleet dominated the purse seine fishing vessels recording 66% of the overall purse seine catch, followed by Korea (30%), Kiribati (4%) and New Zealand (<1%) (Figure 4c). Foreign flagged purse seine vessel catch totalled 6,898 mt (Table 4). The catch was dominated by Skipjack tuna, comprising 96% of the total purse seine catch (Figure 4d).

Table 4. Annual catch estimates in metric tonnes for all <u>licensed foreign vessels by gear</u> within the <u>Cook</u> <u>Islands EEZ</u>, for tuna and billfish species in 2016. Operational logsheet data was raised using VMS data, with 72% logsheet coverage for foreign flagged longline vessels and 76% logsheet coverage for foreign purse seine vessels.

Foreign Vessels	Gear	Effort	ALB	BET	YFT	SKJ	PBF	BLM	BUM	MLS	swo	Total (inc OTH)
CV FF7	LL	135,867 Hhks	2,651	357	711	40	2	3	186	3	45	3,998
CK EEZ	PS	353 days	0	88	442	6368	0	0	0	0	0	6,898

A total of 64 foreign flagged vessels were licenced and authorised to operate within the CK EEZ during 2016, comprising of 33 longliners and 34 purse seiners (Table 5). Foreign flagged fishing in 2016 was undertaken by two Chinese longline companies, one Federated State of Micronesia Longline Company, two Korean purse seine companies and a US purse seine company.

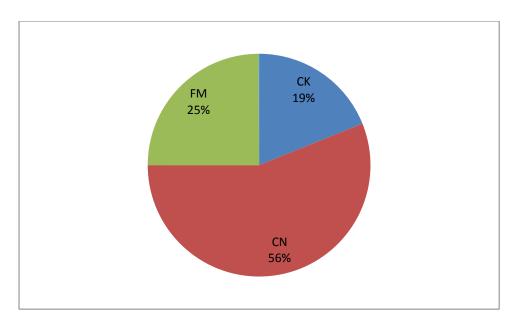


Figure 4a Longline catch by flagged vessels within the CK EEZ

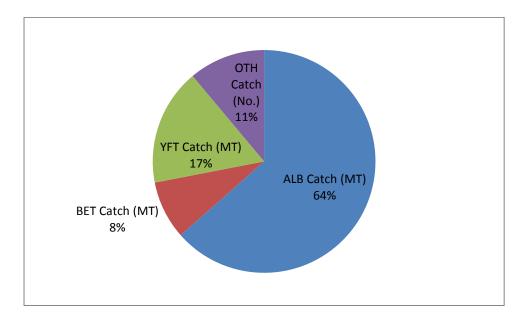


Figure 4b Longline catch by species

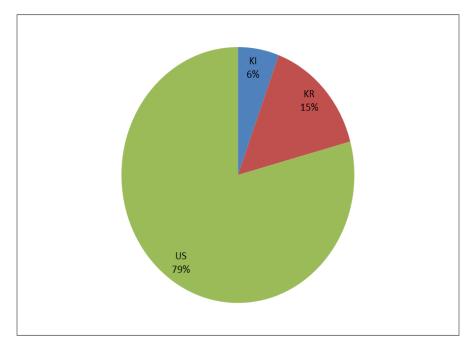


Figure 4c Purse seine catch by flagged vessels within the CK EEZ

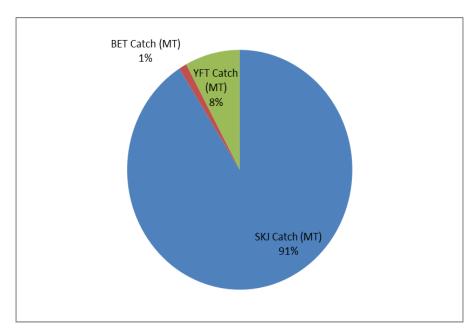


Figure 4d Purse seine catch by species

Table 5. Number of active <u>foreign flagged</u> vessels by gear authorised to operate within the Cook Islands EEZ by size in 2016.

GRT Range	Longline	Carrier	Bunker	Purse seine	Total
0-10	-	-	-	-	-
10-50	-	-	-	-	-
50-200	12	-	-	-	12
200-500	21	-	-	-	21
500+	-	-	-	34	34
Total	33	-	-	34	67

5. Socio-economic Factors

High operating costs out of Rarotonga continue to hinder domestic industry growth. Only three small scale domestic fresh fish vessels operate out of and unload to local markets in Rarotonga. Some Chinese flagged vessels continue to operate out of Pago Pago but unload to shipping containers in the port of Rarotonga. Here, catches are transhipped from vessel to shipping container then shipped back to American Samoa. The local economy benefits from the purchase of fuel, temporary labour to assist with unloading, purchase of provisions and associated port fees. These vessels are also permitted to seasonally sell frozen by-catch to local businesses. This activity allows MMR to conduct routine port side boarding, inspections and port sampling of catches

6. Future Prospects of the Fishery

Since 2015, MMR has been exploring new mechanisms for introducing a quota management system (QMS) that is applicable to Albacore and Bigeye in the longline fishery. A number of technical workshops, supported by FFA and SPC, were conducted in 2014 to develop a QMS for the Cook Islands. In 2015 steps were made to begin aligning all fishing licences to the calendar year (Jan 1st – Dec 31st) in anticipation of the QMS. A new Marine Resources Bill has been developed and is set to be tabled in Parliament in the coming months. This Bill outlines new regulations for the longline fishery which have already been passed by Executive Cabinet in December 2016. These regulations are accompanied by a Fishery Plan. As of 1 January 2017, the QMS system has come in effect with a total allowable catch set at 9,750 mt for Albacore and 3,500 mt for Bigeye tuna fisheries within Cook Islands waters.

7. Research and Statistics

7.1 Status of Tuna Fishery Data Collection Systems

a) Logsheet data collection and verification

Full (100%) logsheet coverage was achieved for the National longline fleet in 2016. Most logsheets were received as original copies via post after the completion of a fishing trip; or, received in electronic format via email either weekly or after the completion of a fishing trip (scanned). Unloading forms were received by all foreign flagged vessels; however, some enforcement was still required for the National Fleet when submitting additional data. Four National Fleet vessels participated in electronic reporting trials using the SPC eTUNAlog software since 2015. These trials continue to be effective for the two domestic vessels using the program in Rarotonga. In May 2016 the e-reporting application 'On-Board' developed by SPC was placed on one domestic vessel, trials continue which has received positive responses from fishing crews. MMR aims to achieve 100% electronic monitoring and reporting by 2019, implementing resources such as the 'on-board' and 'Tails' applications to achieve this.

Domestic vessels undertake short trips (< 1 week) and so the MMR is able to provide feedback and training more regularly. The two trial vessels operating out of Pago Pago spend longer at sea and are consequently more difficult to provide timely feedback. The SPC OFP also rolled out the implementation of TUFMAN2 to the Cook Islands in December 2015. This has further improved the data collection, validation and sharing capacity of the Cook Islands. TUFMAN2 has also supported the eTUNAlog and On-Board trials.

b) Observer Programme

The Cook Islands National Observer Program has diminished in recent years, as observer at sea days have reduced from 898 days in 2013 to below 600 days in 2015-16. In 2016 there were 3 Non-Cook Island observers, 2 of which were based out of Apia and 1 in Rarotonga. However, an MOU was signed in June 2016 between MMR and the fisheries department of Tonga to utilise their observers. Current observer numbers following this MOU is 15. A total of 165 observed sea days were achieved on Cook Island flagged vessels in 2016, within the WPCFA-CA with an overall coverage of approximately 7.7% (Table 6). The submission of observer reports in June 2016 was not complete due to operational complications. Work is continuing to resolve this issue.

Table 6. Estimated annual coverage of <u>operational catch and effort, port sampling and observer</u> <u>data</u> for the <u>National Fleet</u>, active in the WCPF Convention area for 2012 – 2016.

Year	Operational Catch & Effort	Port Sampling	Observer Data (days at sea)
2012	82.5%	10.4%	5.7%
2013	97%	16%	8.9%
2014	97%	23%	9.8%
2015	100%	35%	12.8%
2016	100%	18%	7.7%

c) Port-side Sampling Programme

All port-side sampling occurs in Rarotonga on the small domestic fresh fish longliners and average 2-3 mt per trip. Approximate coverage of port sampling of the Domestic National Fleet in 2016 was 18% (Table 6). For the purposes of QMS verification, port sampling coverage will need to significantly increase in the foreign ports where our licenced vessels choose to unload, namely Pago Pago, Apia, Suva and Papeete. A port-side E-monitoring program is currently being investigated for ports in Rarotonga and Aitutaki for the installation of CCTV cameras used to monitor vessel activity.

7.2 Research Activities

No major research activities were carried out during 2016.

Appendix 1

CMM Reporting 2016

CMM Reference	Description	Response						
CMM 05-03	North Pacific Albacore	One Cook Island flagged vessel fi with a reported catch of 0.308 m		of the equato	or in 2016			
		18 vessels days were recorded a used per set. Observer data for t		_	ooks was			
		This vessel has been deregistere registry.	d from the (Cook Islands v	vessel			
		The 6 monthly reporting require late as data was unavailable at the deadline.						
CMM 06-04	South West Pacific Striped Marlin	Striped Marlin is not targeted by Cook Islands flagged vessels. All catches of MLS were reported as by-catch in the albacore longline fishery.						
		10 Cook Island flagged vessels caught 222 MLS, totalling 14.3mt in t Convention Area south of 15°S.						
CMM 09-03	Swordfish	The Cook Islands have no vessels targeting swordfish; all catch of swordfish are taken as by-catch. Three vessels flagged to the Cook Islands caught 142 Swordfish						
		totalling 8.53mt in the Convention		_	TUIISII			
CMM 09-06	Transhipments	NOT APPLICABLE Vessels flagged to CK did not corwithin the Convention Area.	nduct any tra	anshipment a	ctivities			
CMM 10-07	Sharks	After the establishment of a shark sanctuary in late 2012, the retention of shark by any vessel in the Cook Islands EEZ is prohib. However, some shark retention may arise from CK flagged vesse fishing on the high seas or in other areas of national jurisdiction. The total number of retained sharks caught by longliners as state the observer report is 0. Observer data coverage on CK flagged L vessels in 2016 was 7.7%. Due to operational events with one of observers in June 2016, Apia, submission of observer reports wa obtained. Investigations continue in retrieving these reports.						
		Source: Observer Data – 7.7% coverage						
		Species	Number	Retained	Discarded			
		LONG FINNED MAKO SHARK						
		COOKIE CUTTER SHARK						
		DEVIL MANTA RAY (Mobula						
		nei)						

SILKY SHARK	
SILVER TIP SHARK	
PELAGIC STING-RAY	
OCEANIC WHITE-TIP SHARK	
BLUE SHARK	
SHORT FINNED MAKO SHARK	
WHALE SHARKS	
SMOOTH HAMMERHEAD	
SHARK	
Total	No reported interactions

Longline logsheet coverage for the CK National Fleet was 100%. Logsheet estimates of shark catches and discards/releases are outlined in the table below.

Source: Logsheet data – 100% coverage					
Species	Fate	Catch (n)	Catch (mt)		
MAKO SHARKS	Released	93	0		
PORBEAGLE SHARK	RHN	0	0		
SCALLOPED HAMMERHEAD	RHN	0	0		
THRESHER SHARKS	Released	12	0		
HAMMERHEAD SHARKS	Released	0	0		
OCEANIC WHITE-TIP SHARK	Released	513	0		
BASKING SHARK	Released	5	0		
BLUE SHARK	Released	1,829	0		
PELAGIC STING-RAY	Released	425	0		
SILKY SHARK	Released	53	0		
	No				
	reported				
	interaction				
WHALE SHARKS	S	0	0		
	2,930	0			

CMM 11-03	Cetaceans	NOT APPLICABLE The Cook Islands does not have any flagged purse seine vessels.
CMM 11-04	Oceanic White- Tip Shark	According to logsheet data, 252 oceanic white tip sharks were reported as released. There was 100% logsheet coverage, therefore catch values was not raised. No records of 2016 observer data available. However based on 2015 observer data, 77% of OCS was observed as alive. There is the assumption that 56 OCS were released dead.
CMM 12-04	Whale Sharks	NOT APPLICABLE The Cook Islands do not have any flagged purse seine vessels.

CMM 12-07	Seabirds	No seabird interactions were recorded from logsheets or observer data. 100% logsheet coverage was observed, 2016 observer data is unavailable.
CMM 13-08	Silky Sharks	According to logsheet data, 53 silky sharks were reported as released. There was 100% logsheet coverage, therefore catch values was not raised. No records of 2016 observer data available. However based on 2015 observer data, 65% of FAL was observed as alive. There is the assumption that 19 FAL were released dead.
Observer Coverage WCPFC11 Decision	Longline	Observer coverage is measured using 'at sea days'. Based on an estimated 2,149 VMS days, and 165 observed days, coverage of the National Fleet in the WCPF-CA for 2016 is 7.7%.
CMM 15-02	South Pacific Albacore	This requirement is covered by the comprehensive operational data that is provided to the WCPFC.