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CATCH AND EFFORT TABLES ON TROPICAL TUNA CMMS

**WCPFC-TCC14-2018- IP08¹
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¹ This paper is an update of SC14 meeting paper (SC14-2018-MI-IP04)

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Table 1. Purse seine days fished in waters under national jurisdiction and in International waters (20°N-20°S) in the WCPFC-CA

EEZ	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	Notified / Estimated EEZ Limit	See NOTE (s)
AUSTRALIA	23	14	24	9	0	2	0	1	1	0	0	0	0	0	0	0	0	#	2,9,15,16
COOK ISLANDS	46	228	8	6	2	8	3	29	45	19	104	481	203	354	354	207	485	1,250	2, 17
FIJI	12	5	10	26	36	6	6	23	11	29	27	27	32	0	50	43	31	300	2
FRENCH POLYNESIA	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	#	2
INDONESIA	467	432	483	644	750	598	451	285	319	224	498	1,128	2,425	1,372	987	1,809	2,323	507	2, 4, 18
JAPAN	2,339	2,253	2,166	2,203	1,591	1,410	1,650	706	394	378	186	290	453	184	561	560	501	1,500	2,9,10,13
NEW ZEALAND	233	256	172	459	371	218	245	234	135	218	288	268	304	285	280	197	152	#	2, 9, 15
NIUE	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	200	2, 19
PHILIPPINES	726	776	1,077	1,120	1,054	1,054	1,197	1,370	975	662	431	358	837	1,137	884	875	1,122	925	2,4,6,20
SAMOA	7	11	3	4	3	1	3	7	9	7	39	29	35	15	32	82	11	150	2
TOKELAU	99	395	27	69	128	33	48	137	217	189	871	726	406	645	1,333	195	716	1,000	2, 21
TONGA	2	0	0	1	1	0	0	0	0	0	0	0	2	0	2	18	11	250	2
USA	350	480	237	300	132	191	106	61	127	30	44	205	190	247	96	106	145	1,828	2, 22
VANUATU	2	2	0	23	1	0	0	14	1	0	4	5	1	0	4	0	2	200	2
WALLIS AND FUTUNA	5	3	4	0	4	0	0	6	6	1	3	1	0	1	2	2	0	#	2
PNA EEZs (excl AWs)	24,942	27,261	29,344	30,522	32,356	32,088	31,735	34,418	32,685	44,158	47,367	41,997	43,555	42,654	30,951	35,293	36,697		5, 12
PNA AWs only	2,427	2,216	3,567	3,099	4,667	3,921	5,714	6,256	7,018	6,267	8,671	8,822	7,630	6,785	3,829	3,681	5,388		5
PNA EEZs + AWs = TOTAL PNA	27,369	29,477	32,911	33,621	37,023	36,009	37,449	40,674	39,703	50,425	56,038	50,819	51,185	49,439	34,780	38,974	42,085		5
TOTAL EEZs - excl. PNA AWs	29,225	32,101	33,528	35,377	36,425	35,607	35,444	37,284	34,918	45,914	49,860	45,514	48,443	46,893	35,534	39,389	42,196		
TOTAL EEZs - excl. PNA AWs and ID/PH	28,032	30,893	31,968	33,613	34,621	33,955	33,796	35,629	33,624	45,028	48,931	44,028	45,181	44,384	33,663	36,705	38,751		
TOTAL EEZs + PNA AWs	31,680	34,334	37,123	38,485	41,096	39,530	41,158	43,547	41,943	52,182	58,534	54,337	56,073	53,679	39,365	43,072	47,584	55,694	
TOTAL INT. WATERS (20°N-20°S)	7,346	8,213	8,232	10,241	8,758	6,615	8,213	8,544	10,072	1,501	1,527	2,220	6,146	5,658	8,379	6,886	6,298		6,8,11
TOTAL (EEZs + IW + PNA AWs)	39,026	42,547	45,355	48,726	49,854	46,145	49,371	52,091	52,015	53,683	60,061	56,557	62,219	59,337	47,744	49,958	53,882	61,992	
TOTAL minus ID/PH	37,333	40,839	43,295	46,462	47,550	43,993	47,223	49,936	50,221	52,797	59,132	55,071	58,957	56,828	45,873	47,274	50,437	58,547	
VIETNAM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14

NOTES

1. Source: Raised logsheet data.
2. CMM 2014-01, CMM 2015-01 and CMM 2016-01 -- Para. 23. for years 2015 onwards
3. Catches and effort of vessels operating under charters and similar arrangements have been attributed to host island states or territories in accordance with paragraph 2 of CMM 2008-01 (paragraph 5 of CMM 2012-01, paragraph 5 of CMM 2013-01 or its replacement CMM) using the best information available to SPC-OPF. However, in some cases, catches have not yet been attributed to the CCM responsible for the "charter or similar arrangements" since the flag state CCM has yet to advise that it has excluded these catches from their data (and thereby avoid double-counting).
4. Purse-seine days for Indonesia and the Philippines in domestic waters have been estimated according to Appendix A in the SC4 Statistics SWG Working paper WP-4 (Data relating to purse-seine effort on the high seas and in the zones of non-PNA member CCMs). The estimates exclude archipelagic waters (AW) effort.
5. The definition of days effort in this table may differ from the definition of days used in the PNA Vessel Day Scheme (VDS)
6. The Total International waters effort prior to 2013 does not include estimates of effort for the Philippines domestic fleet at this stage.
7. Since 2011, some components of the tropical purse seine fleet have changed criteria for reporting days with searching (included as a fishing day) and transiting (not included as a fishing day) and this is reflected in the decline in fishing days since 2011.
8. Philippines effort in the high seas pocket 1 during 2013 was 1,352 sets with an estimated 1 set per three days to produce an estimate of 4,056 days effort.
9. Coastal States within the Convention Area either north of 20°N or south of 20°S. CMM 2014-01/CMM 2015-01 references: Para. 22 and footnote 6 on Page 7 -- relevant for 2014 onwards.
10. Operational data for Japan EEZ are not available. Japan effort in their EEZ for years 2001-2007 was determined as the best estimate from their aggregate data. Japan effort for 2008-2017 in their EEZ was provided by Japan in their submission of Annual effort by EEZ/high seas areas.
11. International waters covers high seas in the WCFPC Conventional Area covering the area 20°N-20°S (valid for CMM 2014-01, CMM 2015-01 and CMM 2017-01).
12. CMM 2014-01 or its replacement CMM -- Para. 20. for 2014 onwards "Coastal States within the Convention Area that are Parties to the Nauru Agreement (PNA) shall restrict the level of purse seine effort in their EEZs to 2010 levels through the PNA Vessel Days Scheme".
13. CMM 2014-or its replacement CMM -- Para. 22. for 2014 onwards "Other coastal States within the Convention Area with effort in their EEZs exceeding 1,500 days annually over the period 2006-2010 shall limit effort in their EEZs to 2001-2004 average or 2010 levels".
14. The Vietnam purse seine fleet are understood to fish outside the WCFPC Convention Area (South China Sea).
15. NOTIFIED/ESTIMATED EEZ LIMIT -- notification or estimate of days not provided. In some cases, a catch limit only has been notified.
16. NOTIFIED/ESTIMATED EEZ LIMIT -- and 600 Mt for bigeye and yellowfin tuna for purse seine vessels fishing
17. NOTIFIED/ESTIMATED EEZ LIMIT --And a cumulative catch limit for skipjack tuna of 30,000 Mt in any consecutive four quarterly period.
18. NOTIFIED/ESTIMATED EEZ LIMIT --2015: Scientific estimates of catches and effort in Indonesia EEZ were recently revised to reflect distribution of catches between AW vs EEZ. Indonesia is yet to nominate a limit for purse seine effort in their EEZ in accordance with para 23 of CMM 2015-01. SPC advice as at 20 July 2014 (Table 1) – average of estimated EEZ fishing days effort in 2001-2004 is 507 days.
19. NOTIFIED/ESTIMATED EEZ LIMIT --15 Nov 2013: 200 days and purse seine catch limit for skipjack tuna of 3000 Mt for the EEZ per annum, and combined bigeye and yellowfin purse seine catch limit of 1000 Mt. 1 July 2016: Limits for Niue's EEZ are as follows. "ALB-3000mt YFT-950mt BET-500mt SKJ-1500mt (Purse Seine) YFT & BET-500mt (Purse Seine)" this shall not exceed a combine total of 100 vessel days.
20. NOTIFIED/ESTIMATED EEZ LIMIT --2015: Scientific estimates of catches and effort in Philippines EEZ were recently revised to reflect distribution of catches between AW vs EEZ. Indonesia is yet to nominate a limit for purse seine effort in their EEZ in accordance with para 23 of CMM 2015-01. SPC advice as at 20 July 2014 (Table 1) – average of estimated EEZ fishing days effort in 2001-2004 is 925 days.
21. NOTIFIED/ESTIMATED EEZ LIMIT --or a catch limit of 30,000 tonnes on the purse seine fishery in our EEZ. This limit will begin to be implemented as of 1 January 2012.
22. NOTIFIED/ESTIMATED EEZ LIMIT --23 Oct 2013: 2,588 days applied to US EEZ combined and US fleet on high seas, currently developing regulations to establish limit for U.S. EEZ and will revise accordingly. 1 July 2016: The United States has regulations in place that established a 2014 and 2015 limit of 1,828 fishing days on the high seas and in the U.S. EEZ (combined) between 20N and 20S latitude in the Convention Area (50 CFR § 300.223). All U.S. regulations can be found at www.ecfr.gov

Table 2. Purse seine days fished in international waters in the WCPFC-CA between 20°N and 20°S, by flag, based on available operational data.

PURSE SEINE DAYS FISHED INTERNATIONAL WATERS 20°N-20°S																		CMM limits for 2015, 2016, 2017 (Att. D)	Max. Annual days for 2010-2012	See Notes
Flag	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017			
CHINA	88	125	149	424	505	231	334	251	918	13	7	26	15	9	22	23	0	26	26	11
ECUADOR	0	0	0	0	0	0	13	5	5	3	3	13	0	1	0	0	1	**	13	7,9
EL SALVADOR	3	28	0	0	0	0	206	203	78	46	33	29	29	48	50	24	49	**	46	7,9
EUROPEAN UNION	0	8	13	53	31	78	237	278	249	284	313	422	371	368	244	87	192	403	422	7
FSM	239	239	176	384	218	86	168	126	336	6	3	14	7	11	463	388	508			
INDONESIA	500	500	500	500	500	500	500	500	500	0	0	0	0	0	0	0	0	(0)		
JAPAN	1,366	1,269	1,755	1,867	1,837	1,580	1,346	1,057	1,562	6	3	1	13	8	99	25	2	121	6	
KIRIBATI	41	54	40	36	50	52	22	34	160	97	246	183	184	858	708	881	576			11
MARSHALL ISLANDS	170	209	441	396	400	154	177	283	173	67	34	2	5	7	837	392	626			
NEW ZEALAND	23	329	342	206	96	287	200	195	206	67	30	93	14	19	145	115	95	160		10
PAPUA NEW GUINEA	416	621	633	1,208	1,300	463	849	713	833	83	23	41	16	40	1,125	103	26	#		
PHILIPPINES	13	56	449	464	320	151	26	73	20	2	0	3	4,096	2,667	2,442	2,646	2,700	4,669		4,5
REPUBLIC OF KOREA	1,302	1,285	1,153	1,244	1,069	732	1,389	1,518	1,703	227	64	25	32	194	212	212	197	207	227	
SOLOMON ISLANDS	31	37	0	0	17	15	5	0	0	0	0	1	0	0	0	25	60			
TUVALU	0	0	0	0	0	0	0	0	40	4	5	1	0	1	85	146	105			
CHINESE TAIPEI	1,972	1,860	1,442	1,844	1,229	1,239	1,483	1,329	1,421	76	82	23	71	47	84	94	115	95	82	
USA	969	1,315	858	989	767	527	791	1,546	1,733	398	572	1,238	1,039	1,141	1,658	1,457	844	1,270	1,238	
VANUATU	67	166	186	579	378	401	379	166	64	37	31	7	8	3	0	162	168			
TOTAL	7,200	8,101	8,137	10,194	8,717	6,496	8,125	8,277	10,001	1,416	1,449	2,122	5,900	5,422	8,174	6,780	6,264			

PURSE SEINE DAYS FISHED in WCPFC-IATTC OVERLAP AREA																			See Notes	
Flag	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017			
ECUADOR	0	0	0	0	0	0	22	83	33	51	39	82	89	67	90	0	19			7
EL SALVADOR	23	35	3	0	0	0	26	131	24	20	22	4	121	154	46	67	3			7
EUROPEAN UNION	126	78	91	49	41	119	35	29	14	14	17	11	35	18	70	38	15			7
TOTAL	149	113	94	49	41	119	83	243	71	85	78	97	245	239	206	105	37			

Notes:

1. Source: Raised logsheet data.
2. Catches and effort of vessels operating under charters and similar arrangements have been attributed to host island states or territories in accordance with paragraph 2 of CMM 2008-01 (paragraph 5 of CMM 2012-01, paragraph 5 of CMM 2013-01 or its replacement CMM) using the best information available to SPC-OFP. However, in several cases, catches have not yet been attributed to the CCM responsible for the "charter or similar arrangements" since the flag state CCM has yet to advise that it has excluded these catches from their data (and thereby avoid double-counting).
3. Purse-seine days for Indonesia have been arbitrarily assigned 500 days for high seas according to Appendix A in the SC4 Statistics SWG Working paper WP-4 (Data relating to purse-seine effort on the high seas and in the zones of non-PNA member CCMs)
4. The measures that the Philippines will take are in Attachment C of CMM 2014-01 (or its replacement CMM) for years from 2014 onwards. Attachment C para 10 describes two limits: 1) total number of catcher vessels fishing in HSP-SMA is limited to 36, and 2) an effort limit in vessel days of 4,659 days (ref Table 2(b) WCPFC9-2012-IP09_rev3)
5. The Total International waters effort prior to 2013 does not include estimates of effort for the Philippines domestic fleet at this stage. Philippines effort in the high seas pocket 1 during 2013 was 1,352 sets with an estimated 1 set per three days to produce an estimate of 4,056 days effort. Philippines effort in the high seas pocket 1 during 2014 was listed as 2,667 days according to the Philippines Annual Report Part 1 produced for SC11.
6. Since 2011, some components of the tropical purse seine fleet have changed criteria for reporting days with searching (included as a fishing day) and transiting (not included as a fishing day) and this is reflected in the decline in fishing days since 2011.
7. The days presented in Table 2 exclude effort in the overlap area because it takes into account the WCPFC9 decision on the application of measures in the part of the WCPF Convention Area that overlaps with the IATTC Convention Area (WCPFC9 Summary Report paragraph 80). European Union is a WCPFC member who is also an IATTC member, notified WCPFC in April 2013, of their choice of IATTC measures in the overlap area. Given that Ecuador and El Salvador are members of IATTC, the rules of the RFMO of which it is a member apply in the overlap area between WCPFC and IATTC, even if the CCM is a cooperating non-member of the other RFMO. Total days in Table 2 do not therefore reconcile with total high seas days in Table 1.
8. "CMM limits" are taken from CMM 2014-01 (or its replacement CMM) - Attachments D and apply from 2015 onwards.
9. Subject to CNM on participatory rights, in accordance with paragraph 6 of CMM 2014-01 (or its replacement CMM) for years from 2015 onwards
10. The basis of the CMM 2014-01 (or its replacement CMM) high seas days limit for New Zealand was the average of 2006-2008 effort with an agreed reduction in line with CMM 2013-01 and its predecessor CMMs.
11. For China and Kiribati, the 2015, 2016 and 2017 effort estimates reflect their WCPFC charter notifications for these years.

Table 3. Estimated FAD sets undertaken in the tropical purse seine fishery of the WCPFC Convention Area (20°N-20°S), by flag, 2001-2017.

																	CMM 2016-01 (Att. A) FAD set limits		CMM 2016-01	
2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	COLUMN A	COLUMN B	Adjusted Baseline	CCM
15	139	160	512	861	923	826	1,199	1,672	688	2,013	1,127	1,405	1,487	747	63	15		738		CHINA
0	0	0	0	0	0	75	367	139	220	440	442	275	343	143	46	149		104		ECUADOR
11	26	1	0	0	0	53	152	163	136	186	211	297	306	176	94	74		52		EL SALVADOR
77	32	59	82	47	125	238	411	330	359	488	459	515	431	327	93	149		149		EUROPEAN UNION
324	387	489	789	497	282	338	479	737	417	788	820	537	605	620	521	779	604	528		FSM
?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?				INDONESIA
2,320	2,021	2,266	3,162	2,379	2,617	2,437	2,607	2,403	833	1,320	1,619	1,038	1,026	663	888	638	2,139	1,867		JAPAN
72	62	63	97	104	66	61	78	267	243	552	486	667	823	1,078	470	1,338	493	439	1,463	KIRIBATI
392	578	876	1,064	934	741	891	464	617	630	1,544	1,386	1,165	1,212	1,050	670	1,317		900		MARSHALL ISLANDS
136	399	439	574	196	488	418	439	387	189	189	159	104	141	47	17	0		160		NEW ZEALAND
800	1,299	1,081	2,710	2,067	2,080	1,645	1,378	1,666	983	1,286	1,820	1,271	1,726	1,229	1,828	1,643		1,972		PAPUA NEW GUINEA
901	1,034	1,240	1,197	1,131	848	246	536	552	375	401	622	487	393	356	282	28		403		PHILIPPINES (distant-water)
?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?				PHILIPPINES (domestic)
551	1,221	711	2,518	889	2,300	1,867	1,958	2,126	1,097	2,116	1,421	1,167	1,091	1,533	1,579	1,917	2,286	1,996		REPUBLIC OF KOREA
150	118	100	88	109	252	130	86	173	80	147	191	134	99	107	244	357		145		SOLOMON ISLANDS
1,617	2,621	1,853	3,221	2,738	3,051	2,814	2,284	2,689	1,704	2,955	2,886	2,568	2,610	1,732	1,491	1,874		2,109		CHINESE TAIPEI
0	0	0	0	0	0	0	0	22	40	58	92	78	49	36	59	59		113		TUVALU
2,022	1,772	1,561	2,066	1,317	1,543	1,393	2,757	3,777	2,384	3,389	3,432	3,156	3,696	2,029	2,125	2,394	2,522	2,202		USA
36	143	182	655	528	467	626	172	242	169	391	261	260	229	124	37	99		306		VANUATU
9,424	11,852	11,081	18,735	13,797	15,783	14,058	15,367	17,962	10,547	18,263	17,434	15,124	16,267	11,997	10,507	12,830		14,183		

Notes

1. Source: Raised logsheet data.
2. Covers Drifting FAD, Log and Anchored FAD sets
3. Excludes archipelagic waters. Fleets from Indonesia, Kiribati, Papua New Guinea, Philippines (distant-water), Philippines (domestic) and Solomon Islands in this list are normally the only fleets active in archipelagic waters.
4. Includes high seas
5. Excludes Vietnam domestic fleet
6. Complete information from Indonesia and Philippines domestic fisheries are not available.
7. CMM 2015-01– Paras. 14 and 17, and ATTACHMENT A, provides information on the 2016 FAD set limits applies to FSM, Japan, Kiribati, Korea and United States of America.
8. CMM 2016-01 – Paras. 14 and 17, and ATTACHMENT A, provides information on the 2017 FAD set limits applies to Japan, Korea and United States of America.
9. CMM 2014-01 – Paras. 14 and 17, and ATTACHMENT A, provides information on the 2015 FAD set limits applies to FSM, Japan, Kiribati and Korea.
10. CMM 2013-01, Para 16 (ii) annual limit of FAD sets for 2015 (as set out in Column ‘A’ of Attachment A of CMM 2014-01) applies to FSM, Japan, Kiribati and Korea
11. Annual FAD sets takes into account CMM 2014-01 (or its replacement CMM) footnote 3 notifications (vessels that are managed outside of the FAD set limit). This exemption applied to certain Kiribati vessels for 2016 and 2017.
12. In 2016, FSM applied CMM 2014-01 footnote 3 notifications, but formally chose the 4th month FAD closure for 2017.
13. The 2016 and 2017 estimates of FAD sets for Kiribati and China reflect their respective WCPFC charter notifications.
14. “CMM 2016-01 – Adjusted Baseline”, applies to Kiribati in 2017. The adjusted baseline includes average annual FAD sets for Kiribati vessels that were previously exempt prior to 2017 (due to being newly-introduced since 2012) that had operated for three years prior to 2017.

Table 4. Reported longline catches (metric tonnes) of bigeye tuna in the WCPFC-CA, by flag.

CCM	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	CMM limits for 2015 & 2016	CMM limits for 2017	See Notes
AMERICAN SAMOA	75	196	242	227	134	181	218	132	249	487	1,263	1,502	389	318	557	686	1,394			(4)
AUSTRALIA	1,307	1,002	1,024	892	791	499	1,008	1,027	726	458	379	553	489	490	785	870	418			(7)
BELIZE	1,322	812	782	297	425	254	158	89	43	89	102	132	217	0	0	0	0			(8)
CHINA	2,227	2,312	8,965	11,748	7,520	13,378	10,535	10,798	15,289	13,924	11,139	11,324	10,671	9,370	8,210	8,195	7,023	8,224	7,049	(10), (11)
COOK ISLANDS	1	56	204	394	220	166	238	292	217	319	925	1,624	208	184	151	183	287			(4)
EU-PORTUGAL	0	0	0	0	0	0	0	0	0	0	3	17	106	71	17	10	10			(7)
EU-SPAIN	0	0	0	42	17	62	62	77	46	15	10	23	23	65	53	53	21			(7)
FSM	651	759	656	542	182	172	1,395	970	1,395	899	1,500	1,700	1,270	1,388	1,473	1,803	2,134			(4)
FIJI	662	853	889	1,254	721	771	556	671	768	539	1,718	1,588	1,018	1,698	1,184	1,396	1,108			(4)
FRENCH POLYNESIA	745	649	439	502	606	498	478	490	587	436	607	654	787	741	800	556	864			(4)
GUAM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	831	939	939			
INDONESIA	942	1,470	2,168	2,192	2,202	3,011	1,993	3,579	4,000	1,221	1,699	3,681	2,860	3,673	3,701	8	0	5,889	5,889	(12)
JAPAN	27,466	29,574	26,110	29,248	23,021	25,685	26,076	20,942	17,653	16,619	17,722	16,917	12,991	15,564	14,487	12,610	11,669	18,265	16,860	(12)
KIRIBATI	0	0	1	0	0	0	0	44	0	3	155	800	582	268	556	603	287			(4)
MARSHALL ISLANDS	0	0	0	1	0	0	3	375	381	257	259	335	80	0	0	700	1,229			(4)
NAURU	6	3	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0			(4)
NEW CALEDONIA	128	189	142	90	76	35	53	63	51	44	41	49	51	58	63	74	48			(4)
NEW ZEALAND	481	201	204	177	175	177	213	133	253	132	174	154	109	122	122	177	97			(7)
NIUE	0	0	0	0	10	22	35	51	10	4	0	0	0	0	0	0	0			(4)
NORTHERN MARIANAS	0	0	0	0	0	0	0	0	0	0	0	0	492	1,000	1,000	884	997			(4)
PALAU	21	1	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0			(4)
PAPUA NEW GUINEA	240	318	390	399	237	216	111	201	128	39	59	119	32	52	15	86	47			(4)
PHILIPPINES	59	59	59	59	59	59	59	59	59	59	777	248	167	63	0	0	0			(6), (7)
REPUBLIC OF KOREA	22,172	28,533	17,151	17,941	15,622	12,489	10,054	17,001	15,231	13,914	15,282	18,823	12,818	12,779	10,689	11,018	10,220	13,942	12,689	(11), (13)
SAMOA	185	137	110	104	64	128	101	106	117	108	71	54	36	48	48	61	150			(4)
SENEGAL	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0			(4), (11)
SOLOMON ISLANDS	187	401	385	294	3	0	0	0	0	806	213	0	0	3,054	4,390	0	0			(4), (11)
TONGA	191	215	94	40	125	117	129	81	38	24	18	10	7	22	25	27	24			(4)
TUVALU	0	0	0	0	0	0	0	0	0	0	105	1,408	120	76	187	103	111			(4)
CHINESE TAIPEI	12,435	16,645	14,429	20,992	15,498	14,295	14,760	15,229	13,319	11,874	11,275	10,994	10,600	10,018	9,434	9,488	9,638	10,481	9,675	(11), (13)
USA	2,418	4,396	3,618	4,181	4,462	4,381	5,381	4,649	3,741	3,577	3,565	3,660	3,612	3,823	3,427	3,761	2,968	3,504	3,138	(15), (17)
VANUATU	17	396	841	2,041	1,750	1,783	2,122	1,080	1,383	2,060	2,060	2,151	1,989	3,419	5,603	2,845	3,940			(4)
WALLIS AND FUTUNA	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0			(4)
Total	73,938	89,177	78,914	93,664	73,920	78,382	75,740	78,139	75,684	67,907	71,127	78,520	61,724	68,364	67,808	57,136	55,623	60,305	55,300	
VIETNAM	1,450	614	2,129	2,781	3,527	3,538	3,648	3,358	2,992	2,441	3,424	3,761	2,260	2,350	3,100	1,115	1,004			(9)

Notes:

1. Source: WCPFC Annual catch estimates as at 11th July 2018.
2. Catch estimates in **red** have been carried over from previous years.
3. Indonesia and Philippines have recently revised their estimates in recent years. (see the respective Annual Catch Estimate Workshop reports at (<http://www.wcpfc.int/west-pacific-east-asia-oceanic-fisheries-management-project>))
4. The limits in the columns labelled "CMM limits for 2015 and 2016" and "CMM limits for 2017" do not apply to small island developing State members and participating Territories according to paragraph 7 of CMM 2014-01 and CMM 2015-01 (or its replacement CMM).
5. Catches and effort of vessels operating under charters and similar arrangements have been attributed to host island states or territories in accordance with paragraph 5 of CMM 2012-01 and paragraph 5 CMM 2013-01 using the best information available to SPC-OFP. However, in several cases, catches have not yet been attributed to the CCM responsible for the "charter or similar arrangements" since the flag state CCM has yet to advise that it has excluded these catches from their data (and thereby avoid double-counting).
6. Estimates include archipelagic water catches which for some countries cannot be separated at this stage (e.g. Philippines).
7. The catch limits established at 2,000t prior to 2010, remain at the level of 2,000t for relevant WCPFC members. (according to CMM 2008-01 Para. 32, CMM 2012-01 para 26 and CMM 2013-01 para 41). Note although EU fleets are reported here separately by flag, it is understood that as per the relevant CMM the 2000 Mt limit applies to the combined EU-longline fleet.
8. Subject to CNM on participatory rights, in accordance with paragraph 6 of CMM 2014-01 and CMM 2015-01 (or its replacement CMM) for years from 2015 onwards
9. The Vietnam longline fleet are understood to fish outside the WCPFC Convention Area (South China Sea).
10. Catches by the Chinese longline fleet in the Kiribati EEZ are included in the estimates.
11. Catches by chartered Chinese, Fijian, Korean and Chinese-Taipei flagged longline vessels licensed to fish in Solomon Islands waters have been attributed to the Solomon Islands for 2010, 2011, 2014 and 2015
12. Indonesia bigeye tuna catch excludes catches in Archipelagic waters.
13. Korea and Chinese Taipei will voluntarily restrict its catch level at 2% less than the catch limits specified here in 2013.
14. "CMM limits for 2015 and 2016" is according ATTACHMENT F in CMM 2014-01 and CMM 2015-01, and refer to catch limits for 2015 and 2016 only.
15. USA revised limit for 2015 was 3504 t., to take into account the overage in bigeye catch from 2014
16. "CMM limits for 2017" is according ATTACHMENT F in CMM 2016-01, and refer to catch limits for 2017 only.
17. USA advised by letter to the WCPFC Secretariat that they reduced their 2017 bigeye catch limit (of 3345 Mt in Att F of CMM 2016-01) to 3138Mt to offset the overage in 2016.

Table 5. Reported longline catches (metric tonnes) of yellowfin tuna in the WCPFC-CA, by flag.

CCM	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	Av. 2001- 2004	See Notes
AMERICAN SAMOA	188	485	497	888	526	513	640	333	398	473	699	620	422	454	360	370	826	515	(4)
AUSTRALIA	2,819	3,531	3,681	2,356	1,499	1,830	1,390	1,650	1,387	1,359	1,858	1,259	1,341	1,685	2,177	1,763	1,666	3,097	
BELIZE	957	720	943	208	298	106	273	129	121	28	13	30	21	0	0	0	0	707	(6)
CHINA	1,919	1,844	3,358	4,048	2,446	4,055	2,768	5,007	7,958	2,576	4,598	6,004	4,638	5,949	6,226	6,559	8,526	2,792	(9), (10)
COOK ISLANDS	1	42	178	506	413	262	290	247	197	192	394	693	346	504	339	314	565	182	(4)
EU-PORTUGAL	0	0	0	0	0	0	0	0	0	0	0	0	2	22	4	6	6	0	(13)
EU-SPAIN	0	0	0	23	1	127	127	10	7	3	0	2	2	11	10	28	7	6	(13)
FSM	338	164	276	185	99	270	548	328	583	406	750	750	850	971	963	1,589	1,416	241	(4)
FIJI	2,082	2,027	2,482	4,164	2,591	2,231	1,721	2,763	3,440	2,602	4,051	3,188	2,203	4,343	3,647	4,701	4,986	2,689	(4)
FRENCH POLYNESIA	967	507	621	1,066	793	690	527	447	716	418	491	758	615	783	1,074	941	1,390	790	(4)
GUAM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(4)
INDONESIA	4,001	6,243	9,209	9,313	10,762	9,482	10,371	12,689	18,221	14,041	13,750	11,656	8,271	13,060	18,509	5,632	0	7,192	(12)
JAPAN	18,096	15,810	16,803	15,209	14,792	13,462	13,725	12,365	14,039	17,466	11,427	10,621	8,268	6,494	8,790	10,115	10,073	16,480	
KIRIBATI	2	0	2	0	0	0	0	7	0	4	140	300	175	108	405	610	359	1	(4)
MARSHALL ISLANDS	0	0	0	3	0	0	2	91	120	117	99	113	47	0	0	578	948	1	(4)
NAURU	5	2	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	(4)
NEW CALEDONIA	570	572	754	631	448	414	393	424	487	505	585	573	531	741	852	482	559	632	(4)
NEW ZEALAND	131	27	39	36	36	3	25	11	3	6	3	1	1	2	2	55	10	58	
NIUE	0	0	0	0	34	42	43	40	20	8	0	0	0	0	0	0	0	0	(4)
NORTHERN MARIANAS	0	0	0	0	0	0	0	0	0	0	0	0	93	0	0	0	0	0	(4)
PALAU	41	3	19	28	0	0	0	0	0	0	0	0	0	0	0	0	0	23	(4)
PAPUA NEW GUINEA	1,812	1,738	1,747	2,318	1,222	2,139	1,539	2,259	2,714	2,147	2,303	2,961	1,041	1,568	891	728	1,249	1,904	(4)
PHILIPPINES	484	484	484	484	484	484	484	484	484	484	146	61	27	153	0	0	0	484	(5)
REPUBLIC OF KOREA	13,768	15,497	12,134	10,058	13,329	9,529	8,817	7,846	10,032	7,644	7,881	7,832	5,716	8,371	9,352	8,054	7,008	12,864	(10)
SAMOA	470	369	293	444	199	264	305	317	412	386	395	234	330	231	252	239	644	394	(4)
SENEGAL	0	0	0	0	6	3	4	0	0	0	0	0	0	0	0	0	0	0	(7)
SOLOMON ISLANDS	159	401	258	440	6	0	0	0	0	5,159	643	0	0	12,536	15,923	0	0	315	(4), (10)
TONGA	259	263	263	163	219	227	341	291	109	47	171	140	126	195	297	322	373	237	(4)
TUVALU	0	0	0	0	0	0	0	0	0	286	453	114	41	166	124	164	0	0	(4)
CHINESE TAIPEI	22,326	21,993	22,149	22,975	19,571	18,654	16,668	16,411	19,693	22,225	21,320	16,948	14,999	12,257	14,118	17,816	21,622	22,361	(10)
USA	1,016	572	809	694	698	937	833	836	429	462	738	576	546	567	681	1,098	1,761	773	
VANUATU	49	778	1,315	1,755	1,147	1,346	967	860	801	788	1,269	2,230	1,626	1,695	2,097	1,454	1,437	974	(4)
WALLIS AND FUTUNA	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	(4)
Total	72,460	74,072	78,320	77,996	71,619	67,070	62,801	65,845	82,371	79,546	74,014	68,003	52,351	72,741	87,135	63,578	65,595	75,712	
VIETNAM	8,292	9,756	8,179	11,122	10,895	10,930	11,270	10,375	9,244	9,513	10,576	12,456	13,917	11,603	15,097	16,423	15,677		(8)

Notes:

1. Source: WCFPC Annual catch estimates as at 11th July 2018.
2. Catch estimates in **red** have been carried over from previous years.
3. Indonesia and Philippines have recently revised their estimates (see the respective Annual Catch Estimate Workshop reports at (<http://www.wcpfc.int/west-pacific-east-asia-oceanic-fisheries-management-project>))
4. Catches and effort of vessels operating under charters and similar arrangements have been attributed to host island states or territories in accordance with paragraph 2 of CMM 2008-01 (paragraph 5 of CMM 2012-01, paragraph 5 of CMM 2013-01 or its replacement CMM) using the best information available to SPC-OFP. However, in several cases, catches have not yet been attributed to the CCM responsible for the "charter or similar arrangements" since the flag state CCM has yet to advise that it has excluded these catches from their data (and thereby avoid double-counting).
5. Estimates include archipelagic water catches which for some countries cannot be separated at this stage (e.g. Philippines).
6. Subject to CNM on participatory rights, in accordance with paragraph 6 of CMM 2014-01 (or its replacement CMM) for years from 2015 onwards. Belize is not presently a CNM.
7. Senegal committed to limiting its fishing activities in the WCPF Convention Area to one longline vessel - WCFPC5 Report (Para. 44). Senegal is not presently a CNM
8. The Vietnam longline fleet are understood to fish outside the WCFPC Convention Area (South China Sea).
9. Catches by the Chinese longline fleet in the Kiribati EEZ are included in the estimates.
10. Catches by chartered Chinese, Korean and Chinese-Taipei flagged longline vessels licensed to fish in Solomon Islands waters have been attributed to the Solomon Islands for 2010, 2011, 2014 and 2015.
11. Does not yet cover development of new fisheries in the waters of small-island developing states (e.g. Tokelau)
12. Indonesia yellowfin tuna catch excludes catches in Archipelagic waters.
13. Note although EU fleets are reported here separately by flag, it is understood that as per the relevant CMM the 2000 Mt limit applies to the combined EU-longline fleet.

Table 6. Total Effort of COMMERCIAL FISHERIES, other than Purse seine and Longline, in the WCPFC Statistical Area, based on available aggregate and operational catch/effort data.

GEAR	FLAG	Total Effort Estimate		Total Catch		Area Note	Availability of EFFORT data	See NOTE
		CMM 2014-01 limit	2017	CMM 2016-01 limit	2017			
GILLNET	VIETNAM			13,520	41,252		NO	
HANDLINE (LARGE-FISH)	INDONESIA	43,638	38,281	2,521	8,377	<i>Within EEZ only, excluding AWs</i>	NO	7, 8, 9
	PHILIPPINES	48,601	44,418	2,672	5,659	<i>Within EEZ only, excluding AWs</i>	NO	7, 9
HOOK-AND-LINE (SMALL-FISH)	PHILIPPINES	133,637	46,047	14,000	5,222	<i>Fishery mostly within archipelagic waters</i>	NO	7, 9
POLE-AND-LINE	INDONESIA	5,279	2,897	33,382	11,166	<i>Fishery mostly within archipelagic waters</i>	NO	7, 8, 9
	JAPAN	21,021	10,291	114,573	56,089		YES	3, 6
SEINE	CHINESE TAIPEI		0	2,473	4,510	Within EEZ	NO	5
RINGNET	PHILIPPINES	1,425	3,626	3,654	7,606	<i>Fishery mostly within archipelagic waters</i>	NO	7, 9
TROLL	JAPAN			17,179	2,637	Primarily Territorial Seas	NO	6
UNCLASSIFIED / UNSPECIFIED	INDONESIA			24,336	35,122	<i>Fishery mostly within archipelagic waters</i>	NO	7, 8
	KIRIBATI			2,368	4,359	Within EEZ	NO	

Notes:

1. Source: Raised logsheet data. 2017 data are provisional.
2. The column labeled "Average Annual tuna catch" is the average total skipjack, yellowfin and bigeye tuna catch for 2001-2004, or 2004. Average catches less than 2,000 t. have been excluded as per CMM 2013-01 Para. 47.
3. The CMM 2013 limit for total effort was determined from the average level for the period 2001-2004 or 2004 effort level.
4. The definition for "Commercial" fisheries, at this stage, includes all fisheries other than purse seine and longline fisheries, until otherwise advised.
5. Chinese Taipei advised on 29 July 2014 that its SEINE vessels have a historical catch over 2000 Mt of skipjack. The total number of Chinese Taipei seine vessels has been limited to 200 (source of baseline year not specified 2004 or ave 2001-2004 catches), and the number of vessels that actively fished in 2013 was 112. Annual catches of skipjack tuna and vessel numbers were provided for the period 2001-2013 on 30th October 2014. The average catch for 2004 was 2,473 t.
6. Advice from Japan -- "Paragraph 9 of CMM 2012-01 provides that this measure applies to all areas of high seas and EEZs in the Convention Area. Therefore this paragraph does not apply to troll fishery, which operate within territorial sea.
 - Regarding pole-and-line fishery and purse seine north of 20N fishery JFA ensure that the total effort and capacity of these tuna fisheries shall not exceed the average level for the period 2001-2004 or 2004 under its licensing system.
 - Therefore JFA consider fulfilling this requirement.
 - JFA submits following information of pole-and-line fishery and purse seine north of 20N fishery as attached. On the other hand JFA does not agree with the Secretariat view to consider non provision of these data as a potential compliance issue because it is not required under this paragraph.

Effort data (2001-2004 average, 2004 and 2013)
Catch data (2001-2004 average, 2004 and 2013)"

7. This table represents catch/effort that excludes activities in archipelagic waters.
8. Indonesia has advised that only few vessels in this fishery are "Commercial". The catch shown here includes all vessels.
9. Estimates of effort for Indonesia and Philippines has been based on data collected under the WCPFC-administered WPEA Projects.

Table 7. Purse seine tuna catch and effort by set type and species in the WCPFC Convention Area between 20°N and 20°S, excluding domestic purse seine catch/effort in Philippines, Indonesia and Vietnam.

FLEET	YEAR	VESSELS		DAYS	UNASSOCIATED SCHOOLS								ASSOCIATED SCHOOLS								TOTAL				
		YB	LOG		SKIPJACK			YELLOWFIN		BIGEYE		TOTAL	SKIPJACK			YELLOWFIN		BIGEYE		TOTAL	SETS	MT	MT	BET	TOTAL
					SETS	MT	%	MT	%	MT	%	MT	SETS	MT	%	MT	%	MT	%	MT	SETS	MT	MT	MT	MT
CN	2010	12	10	2,784	2,095	21,495	74%	7,274	25%	262	1%	29,031	692	17,248	70%	5,328	22%	1,952	8%	24,529	2,788	38,854	12,636	2,224	53,714
CN	2011	12	10	4,019	1,396	11,337	74%	3,870	25%	111	1%	15,318	2,023	46,306	74%	11,708	19%	4,207	7%	62,222	3,419	57,644	15,578	4,318	77,540
CN	2012	13	12	2,205	706	9,884	71%	3,876	28%	142	1%	13,902	1,143	26,307	75%	6,569	19%	2,370	7%	35,246	1,849	36,192	10,444	2,512	49,148
CN	2013	14	12	3,623	2,350	26,807	87%	3,901	13%	264	1%	30,971	1,409	37,118	74%	10,050	20%	3,363	7%	50,531	3,760	64,157	14,026	3,645	81,828
CN	2014	19	18	3,153	1,443	17,640	84%	3,277	16%	197	1%	21,114	1,474	45,576	78%	9,494	16%	3,428	6%	58,499	2,917	63,216	12,772	3,625	79,612
CN	2015	20	16	2,011	913	12,064	75%	3,858	24%	266	2%	16,189	749	21,138	78%	4,430	16%	1,479	6%	27,047	1,662	33,202	8,288	1,745	43,236
CN	2016	2	6	504	396	5,462	68%	2,388	30%	131	2%	7,981	146	2,902	68%	1,123	26%	247	6%	4,272	544	8,403	3,528	380	12,311
CN	2017	3	1	39	14	80	79%	19	19%	2	2%	101	15	310	80%	61	16%	15	4%	386	29	390	80	16	487
EC	2010	14	6	319	21	123	70%	48	27%	4	2%	175	233	6,407	58%	2,604	23%	2,135	19%	11,145	254	6,530	2,651	2,139	11,320
EC	2011	8	7	556	41	207	24%	640	75%	3	0%	851	447	18,873	67%	4,256	15%	5,203	18%	28,332	488	19,081	4,896	5,206	29,183
EC	2012	8	7	605	17	363	63%	210	37%	2	0%	575	444	15,373	68%	3,373	15%	3,824	17%	22,570	461	15,736	3,583	3,826	23,145
EC	2013	7	7	466	70	2,057	90%	180	8%	42	2%	2,280	284	13,373	70%	2,590	14%	3,200	17%	19,162	355	15,430	2,770	3,242	21,442
EC	2014	7	7	478	57	1,133	87%	146	11%	18	1%	1,297	360	15,777	77%	1,960	10%	2,805	14%	20,542	417	16,910	2,106	2,822	21,839
EC	2015	7	4	162	1	0	0%	0	0%	0	0%	0	150	8,955	76%	981	8%	1,823	16%	11,759	151	8,955	981	1,823	11,759
EC	2016	2	2	36	0	0	0%	0	0%	0	0%	0	46	2,759	70%	565	14%	600	15%	3,924	46	2,759	565	600	3,924
EC	2017	4	4	149	0	0	0%	0	0%	0	0%	0	149	6,901	65%	1,410	13%	2,312	22%	10,623	149	6,901	1,410	2,312	10,623
ES	2010	4	4	720	26	707	86%	108	13%	5	1%	820	364	19,796	69%	4,722	17%	4,130	14%	28,648	390	20,502	4,830	4,136	29,468
ES	2011	4	4	753	30	421	32%	906	68%	7	1%	1,334	488	27,041	71%	5,026	13%	6,050	16%	38,117	518	27,462	5,932	6,057	39,451
ES	2012	4	4	787	57	1,865	67%	874	32%	27	1%	2,767	461	19,363	66%	4,582	16%	5,459	19%	29,404	517	21,228	5,456	5,487	32,171
ES	2013	4	4	837	56	2,751	91%	269	9%	7	0%	3,026	515	28,442	66%	7,204	17%	7,494	17%	43,141	571	31,193	7,473	7,501	46,167
ES	2014	4	4	753	89	2,881	68%	1,322	31%	10	0%	4,213	431	27,634	76%	3,522	10%	5,091	14%	36,247	520	30,515	4,844	5,101	40,460
ES	2015	4	4	534	28	1,286	94%	81	6%	0	0%	1,368	326	26,895	85%	3,069	10%	1,876	6%	31,840	355	28,181	3,151	1,877	33,208
ES	2016	2	2	127	1	0	0%	0	0%	0	0%	0	92	6,208	73%	773	9%	1,527	18%	8,508	93	6,208	773	1,527	8,508
ES	2017	2	2	207	0	0	0%	0	0%	0	0%	0	149	8,117	70%	1,299	11%	2,117	18%	11,532	149	8,117	1,299	2,117	11,532
FM	2010	7	8	1,305	612	8,592	81%	1,960	18%	92	1%	10,645	419	10,329	73%	2,702	19%	1,048	7%	14,078	1,031	18,921	4,662	1,140	24,723
FM	2011	7	7	1,641	483	5,788	76%	1,823	24%	50	1%	7,661	790	13,384	71%	4,357	23%	1,092	6%	18,832	1,276	19,180	6,183	1,142	26,505
FM	2012	9	9	1,573	464	6,331	75%	2,034	24%	67	1%	8,432	826	21,722	79%	4,120	15%	1,693	6%	27,535	1,301	28,275	6,187	1,771	36,233
FM	2013	10	10	1,384	450	9,008	86%	1,314	13%	98	1%	10,420	539	13,135	75%	3,123	18%	1,206	7%	17,464	989	22,143	4,437	1,304	27,884
FM	2014	10	10	1,414	611	13,053	85%	2,138	14%	238	2%	15,429	614	17,155	76%	4,107	18%	1,384	6%	22,646	1,225	30,208	6,245	1,622	38,075
FM	2015	12	13	1,883	1,212	26,092	83%	5,008	16%	352	1%	31,452	627	19,530	80%	3,521	15%	1,240	5%	24,290	1,839	45,622	8,529	1,592	55,743
FM	2016	16	18	2,751	1,065	21,374	79%	5,231	19%	410	2%	27,014	1,137	34,297	77%	7,093	16%	3,285	7%	44,675	2,202	55,671	12,324	3,695	71,689
FM	2017	19	19	3,530	1,760	30,578	77%	8,911	22%	396	1%	39,885	1,474	30,667	73%	8,482	20%	2,903	7%	42,051	3,243	61,372	17,463	3,332	82,167
JP	2010	37	37	5,695	5,633	131,801	79%	34,821	21%	1,223	1%	167,845	833	28,855	79%	5,147	14%	2,331	6%	36,333	6,566	162,488	41,179	3,699	207,366
JP	2011	40	38	6,524	5,956	92,330	78%	25,852	22%	875	1%	119,057	1,320	42,034	82%	6,302	12%	2,912	6%	51,247	7,306	134,883	32,257	3,795	170,935
JP	2012	41	37	5,448	4,867	101,257	82%	20,100	16%	1,623	1%	122,980	1,619	61,599	84%	8,154	11%	3,670	5%	73,423	6,514	163,061	28,379	5,321	196,761
JP	2013	41	34	5,501	4,759	101,389	84%	17,165	14%	1,674	1%	120,228	1,038	43,580	82%	6,927	13%	2,907	5%	53,413	5,834	145,512	24,417	4,666	174,595
JP	2014	40	33	4,898	4,276	86,453	74%	28,114	24%	2,401	2%	116,968	1,026	37,668	79%	7,401	15%	2,927	6%	47,996	5,342	125,231	35,937	5,584	166,752
JP	2015	40	33	4,199	3,386	84,798	73%	29,480	25%	2,701	2%	116,978	664	20,109	69%	6,562	23%	2,458	8%	29,130	4,175	108,111	37,532	5,463	151,106
JP	2016	37	31	5,006	4,176	82,132	75%	25,746	24%	1,608	2%	109,487	888	24,557	69%	8,376	24%	2,729	8%	35,662	5,143	108,477	34,944	4,576	147,997
JP	2017	38	30	4,697	3,898	78,629	72%	29,939	27%	1,291	1%	109,858	638	19,479	74%	5,777	22%	1,242	5%	26,499	4,659	100,951	36,969	2,668	140,589

Table 7. (continued)

FLEET	YEAR	VESSELS		DAYS	UNASSOCIATED SCHOOLS								ASSOCIATED SCHOOLS								TOTAL				
		YB	LOG		SKIPJACK		YELLOWFIN		BIGEYE		TOTAL	SKIPJACK		YELLOWFIN		BIGEYE		TOTAL	SETS	SKJ	YFT	BET	TOTAL		
					SETS	MT	%	MT	%	MT	%	MT	SETS	MT	%	MT	%	MT	%	MT	SETS	MT	MT	MT	MT
KI	2010	5	4	693	465	7,468	80%	1,854	20%	74	1%	9,396	245	11,344	72%	2,530	16%	1,816	12%	15,691	741	19,275	4,532	1,940	25,746
KI	2011	7	7	1,429	785	9,373	71%	3,787	29%	72	1%	13,232	554	25,085	76%	4,527	14%	3,578	11%	33,190	1,347	34,517	8,333	3,664	46,514
KI	2012	9	9	1,845	1,592	29,820	78%	8,007	21%	303	1%	38,130	491	19,421	81%	2,946	12%	1,709	7%	24,076	2,091	49,425	10,989	2,018	62,432
KI	2013	12	12	2,007	1,443	26,891	81%	6,088	18%	280	1%	33,259	669	28,862	74%	6,650	17%	3,471	9%	38,982	2,113	55,753	12,737	3,751	72,241
KI	2014	14	15	2,820	2,188	45,308	77%	13,257	23%	328	1%	58,893	831	41,046	82%	5,326	11%	3,909	8%	50,281	3,019	86,354	18,583	4,237	109,174
KI	2015	21	21	2,942	2,563	62,163	86%	9,395	13%	423	1%	71,981	1,085	56,046	87%	6,155	10%	2,515	4%	64,716	3,649	118,210	15,550	2,937	136,697
KI	2016	27	23	4,552	2,360	50,907	82%	10,630	17%	600	1%	62,137	1,887	81,543	81%	12,364	12%	7,445	7%	101,352	4,247	132,450	22,994	8,045	163,489
KI	2017	19	21	5,098	1,844	28,837	76%	9,063	24%	307	1%	38,207	2,839	89,132	78%	17,262	15%	7,495	7%	113,888	4,684	117,995	26,338	7,804	152,137
KR	2010	29	28	7,178	6,308	146,060	71%	56,734	28%	2,234	1%	205,027	1,117	56,633	78%	10,949	15%	4,624	6%	72,206	7,433	202,748	67,702	6,863	277,313
KR	2011	28	28	6,552	4,493	79,800	73%	28,969	27%	633	1%	109,402	2,128	73,792	75%	17,072	17%	7,242	7%	98,107	6,627	153,737	46,084	7,883	207,704
KR	2012	28	28	5,836	6,099	142,652	77%	41,734	23%	1,478	1%	185,865	1,433	62,708	82%	9,794	13%	3,825	5%	76,326	7,533	205,360	51,528	5,303	262,191
KR	2013	27	28	5,983	6,068	131,722	81%	29,651	18%	1,819	1%	163,192	1,171	48,380	78%	10,376	17%	3,682	6%	62,439	7,239	180,102	40,027	5,502	225,631
KR	2014	28	29	5,437	5,820	162,812	81%	36,124	18%	1,286	1%	200,221	1,097	58,307	84%	7,772	11%	3,748	5%	69,827	6,917	221,118	43,896	5,034	270,048
KR	2015	25	26	4,763	4,615	132,430	83%	25,617	16%	1,338	1%	159,384	1,540	96,570	87%	10,434	9%	3,890	4%	110,894	6,155	228,999	36,050	5,229	270,278
KR	2016	25	25	4,702	4,211	130,724	78%	36,127	21%	1,761	1%	168,612	1,588	89,240	81%	12,877	12%	7,725	7%	109,843	5,799	219,965	49,004	9,486	278,455
KR	2017	26	26	5,559	4,843	103,266	72%	38,643	27%	1,148	1%	143,057	1,919	83,432	80%	15,084	15%	5,257	5%	103,773	6,765	186,698	53,727	6,405	246,830
MH	2010	10	10	1,670	1,228	19,301	78%	5,342	22%	260	1%	24,903	636	24,954	74%	5,479	16%	3,285	10%	33,718	1,881	44,648	10,949	3,565	59,162
MH	2011	10	10	2,521	547	7,790	82%	1,728	18%	43	0%	9,561	1,550	60,101	75%	12,850	16%	7,672	10%	80,622	2,097	67,890	14,577	7,715	90,183
MH	2012	10	10	1,989	748	11,185	68%	5,073	31%	117	1%	16,375	1,394	45,382	79%	7,668	13%	4,171	7%	57,220	2,142	56,567	12,741	4,287	73,595
MH	2013	10	10	2,132	1,075	17,820	89%	2,158	11%	99	1%	20,077	1,167	42,800	74%	10,369	18%	4,325	8%	57,494	2,243	60,662	12,543	4,429	77,634
MH	2014	12	11	2,131	1,127	19,003	88%	2,464	11%	128	1%	21,596	1,219	42,959	79%	8,017	15%	3,324	6%	54,300	2,346	61,962	10,481	3,453	75,896
MH	2015	12	12	2,203	1,839	35,365	94%	2,150	6%	83	0%	37,598	1,063	41,190	84%	5,659	12%	2,423	5%	49,271	2,903	76,554	7,809	2,506	86,869
MH	2016	10	10	1,975	1,305	23,714	85%	4,131	15%	182	1%	28,027	671	26,551	81%	4,246	13%	2,150	7%	32,946	1,976	50,264	8,377	2,332	60,973
MH	2017	10	10	2,148	537	7,500	78%	1,996	21%	70	1%	9,566	1,319	41,961	76%	8,602	16%	4,656	8%	55,218	1,858	49,461	10,598	4,726	64,784
NZ	2010	4	4	564	371	8,058	97%	221	3%	9	0%	8,287	192	7,837	82%	1,336	14%	421	4%	9,594	564	15,895	1,557	430	17,882
NZ	2011	4	4	461	140	2,713	85%	467	15%	5	0%	3,185	193	5,859	78%	1,158	15%	540	7%	7,557	333	8,571	1,625	545	10,742
NZ	2012	4	4	471	288	5,357	86%	826	13%	34	1%	6,217	162	3,809	81%	638	14%	231	5%	4,678	450	9,166	1,464	265	10,895
NZ	2013	4	4	306	173	4,944	94%	312	6%	9	0%	5,265	120	4,333	80%	746	14%	374	7%	5,453	293	9,277	1,058	383	10,719
NZ	2014	5	5	301	173	3,669	87%	544	13%	19	0%	4,233	157	4,695	86%	518	10%	239	4%	5,453	330	8,365	1,062	258	9,685
NZ	2015	2	2	263	276	4,863	88%	553	10%	93	2%	5,510	51	2,377	88%	247	9%	88	3%	2,713	327	7,241	800	182	8,222
NZ	2016	2	2	176	212	3,804	99%	45	1%	8	0%	3,857	48	2,231	84%	250	9%	168	6%	2,649	260	6,035	295	176	6,506
NZ	2017	1	1	108	57	1,795	90%	181	9%	29	1%	2,005	58	2,370	76%	544	18%	197	6%	3,111	116	4,166	725	226	5,116
PG	2010	45	48	8,914	5,461	90,314	73%	31,472	26%	1,306	1%	123,093	2,659	56,809	69%	20,163	25%	4,969	6%	81,940	8,125	147,240	51,661	6,282	205,184
PG	2011	49	50	9,202	4,733	65,207	77%	18,863	22%	425	1%	84,496	3,289	62,130	72%	19,549	23%	4,122	5%	85,801	8,035	127,616	38,499	4,567	170,682
PG	2012	51	50	9,817	6,335	95,661	69%	40,588	30%	1,519	1%	137,768	3,210	69,266	71%	22,958	24%	5,444	6%	97,668	9,589	165,433	63,722	7,008	236,166
PG	2013	51	50	8,961	6,040	89,023	73%	32,165	26%	1,664	1%	122,851	2,454	48,815	67%	19,217	27%	4,358	6%	72,389	8,509	138,023	51,481	6,042	195,546
PG	2014	55	51	9,640	6,326	105,532	74%	35,124	25%	1,827	1%	142,483	2,395	68,214	74%	17,839	19%	5,724	6%	91,777	8,744	174,127	53,160	7,594	234,881
PG	2015	53	54	6,689	5,660	107,820	74%	34,907	24%	2,144	2%	144,870	1,586	51,689	74%	13,401	19%	4,523	7%	69,613	7,251	159,527	48,315	6,669	214,511
PG	2016	67	38	8,538	7,222	123,958	66%	61,761	33%	3,113	2%	188,832	2,091	73,506	75%	18,475	19%	5,780	6%	97,760	9,343	198,393	80,697	8,995	288,085
PG	2017	67	58	10,757	10,287	133,865	59%	91,177	40%	3,697	2%	228,739	2,050	49,743	71%	17,239	25%	3,358	5%	70,340	12,447	185,628	109,690	7,171	302,490

Table 7. (continued)

FLEET	YEAR	VESSELS		DAYS	UNASSOCIATED SCHOOLS										ASSOCIATED SCHOOLS										TOTAL				
		YB	LOG		SKIPJACK			YELLOWFIN		BIGEYE		TOTAL	SKIPJACK			YELLOWFIN		BIGEYE		TOTAL	SETS	MT	MT	BET	TOTAL				
					SETS	MT	%	MT	%	MT	%	MT	SETS	MT	%	MT	%	MT	%	MT	SETS	MT	MT	MT	MT				
PH	2010	25	24	4,480	2,339	30,611	63%	17,123	35%	698	1%	48,432	777	16,400	64%	7,235	28%	1,849	7%	25,485	3,222	48,032	24,936	2,628	75,596				
PH	2011	25	23	5,694	3,201	41,543	72%	16,119	28%	292	1%	57,955	1,275	21,618	68%	9,248	29%	989	3%	31,855	4,574	63,999	25,699	1,318	91,016				
PH	2012	21	28	6,276	4,330	51,552	63%	29,395	36%	1,351	2%	82,298	1,650	29,763	67%	12,857	29%	2,096	5%	44,716	6,031	81,935	42,406	3,477	127,818				
PH	2013	27	27	4,808	3,175	35,440	55%	27,374	43%	1,214	2%	64,028	1,363	22,380	58%	13,750	36%	2,213	6%	38,343	4,584	58,468	41,539	3,481	103,488				
PH	2014	27	29	4,940	3,771	58,192	64%	31,662	35%	1,509	2%	91,363	1,112	19,277	62%	9,728	32%	1,872	6%	30,877	4,904	77,678	41,522	3,407	122,607				
PH	2015	23	21	2,888	1,981	24,907	56%	18,575	42%	1,111	3%	44,592	834	15,676	52%	11,424	38%	2,855	10%	29,955	2,824	40,992	30,213	4,055	75,260				
PH	2016	17	16	1,992	1,603	27,169	59%	17,999	39%	901	2%	46,070	548	15,444	65%	6,630	28%	1,621	7%	23,695	2,199	43,554	25,142	2,697	71,394				
PH	2017	12	7	1,295	1,003	11,252	47%	12,183	51%	619	3%	24,053	164	3,070	60%	1,893	37%	118	2%	5,081	1,198	14,819	14,442	749	30,010				
SB	2010	5	5	485	95	2,100	60%	1,354	39%	26	1%	3,480	353	6,594	68%	2,813	29%	330	3%	9,737	448	8,694	4,167	356	13,217				
SB	2011	5	5	1,006	119	2,269	80%	557	20%	11	0%	2,836	742	14,059	62%	7,696	34%	971	4%	22,726	861	16,327	8,252	982	25,562				
SB	2012	5	5	1,094	98	1,579	75%	517	25%	0	0%	2,096	833	15,620	64%	8,182	34%	602	3%	24,404	931	17,199	8,699	602	26,500				
SB	2013	5	5	1,093	213	2,955	66%	1,511	34%	44	1%	4,510	664	12,893	64%	6,712	33%	653	3%	20,259	876	15,848	8,223	697	24,769				
SB	2014	5	5	1,212	269	3,650	46%	4,208	54%	12	0%	7,869	787	12,067	54%	10,040	45%	447	2%	22,554	1,056	15,717	14,249	459	30,425				
SB	2015	8	6	1,343	389	5,690	61%	3,643	39%	50	1%	9,384	787	10,916	56%	8,148	42%	345	2%	19,409	1,176	16,606	11,791	395	28,792				
SB	2016	8	8	2,172	1,020	15,232	64%	8,416	35%	202	1%	23,849	1,060	17,889	57%	12,954	41%	714	2%	31,557	2,094	33,318	21,520	933	55,771				
SB	2017	10	9	2,053	1,114	13,448	64%	7,498	36%	96	1%	21,041	867	14,511	59%	9,779	40%	378	2%	24,667	1,981	27,961	17,278	473	45,712				
SV	2010	2	2	210	3	21	75%	7	25%	0	0%	28	136	4,833	66%	1,370	19%	1,141	16%	7,344	139	4,854	1,376	1,142	7,372				
SV	2011	2	2	268	3	18	21%	67	79%	0	0%	85	185	8,704	72%	1,581	13%	1,856	15%	12,141	188	8,722	1,648	1,856	12,226				
SV	2012	2	2	300	4	15	100%	0	0%	0	0%	15	213	9,062	67%	2,231	16%	2,339	17%	13,632	217	9,077	2,231	2,339	13,647				
SV	2013	4	4	404	13	341	83%	69	17%	2	1%	412	296	11,246	67%	11,246	67%	2,885	17%	2,674	16%	16,805	309	11,587	2,954	2,676	17,217		
SV	2014	4	4	485	92	1,957	97%	61	3%	1	0%	2,019	303	11,518	75%	1,992	13%	1,952	13%	15,461	394	13,475	2,053	1,952	17,480				
SV	2015	2	2	180	7	0	0%	0	0%	0	0%	0	177	12,304	80%	1,976	13%	1,020	7%	15,300	184	12,304	1,976	1,020	15,300				
SV	2016	3	2	112	6	676	100%	1	0%	0	0%	677	95	5,384	81%	588	9%	654	10%	6,626	101	6,060	589	654	7,303				
SV	2017	1	1	67	2	51	76%	16	24%	1	2%	67	74	2,757	65%	773	18%	722	17%	4,252	76	2,807	789	722	4,319				
TV	2010	1	1	271	319	6,858	76%	2,083	23%	55	1%	8,997	40	1,127	72%	315	20%	116	8%	1,557	359	7,985	2,397	171	10,554				
TV	2011	1	1	311	283	4,349	81%	978	18%	24	0%	5,351	58	1,603	78%	287	14%	176	9%	2,066	341	5,953	1,265	200	7,417				
TV	2012	1	1	271	301	3,280	60%	2,179	40%	41	1%	5,500	92	4,514	81%	718	13%	322	6%	5,554	393	7,794	2,897	363	11,054				
TV	2013	1	1	273	353	6,846	89%	815	11%	60	1%	7,721	79	2,841	77%	654	18%	200	5%	3,695	432	9,688	1,468	260	11,416				
TV	2014	1	1	159	146	3,203	87%	444	12%	28	1%	3,675	49	1,842	81%	283	13%	143	6%	2,268	195	5,045	726	171	5,943				
TV	2015	1	1	186	174	3,589	97%	97	3%	4	0%	3,690	36	1,525	86%	187	11%	68	4%	1,780	210	5,114	284	72	5,470				
TV	2016	1	1	234	93	2,457	98%	60	2%	4	0%	2,520	59	3,018	84%	434	12%	138	4%	3,590	152	5,474	493	142	6,110				
TV	2017	2	2	161	84	2,266	74%	776	25%	14	1%	3,056	59	2,118	82%	286	11%	181	7%	2,585	143	4,384	1,063	194	5,641				
TW	2010	34	30	7,865	6,413	94,416	77%	27,074	22%	1,119	1%	122,609	1,709	56,082	74%	14,707	19%	5,451	7%	76,241	8,122	150,498	41,781	6,570	198,850				
TW	2011	34	31	8,841	4,798	54,870	79%	14,210	21%	400	1%	69,480	2,959	79,515	75%	19,008	18%	7,930	7%	106,454	7,757	134,385	33,219	8,330	175,934				
TW	2012	34	33	7,051	4,617	61,410	71%	24,080	28%	839	1%	86,328	2,903	89,567	78%	17,486	15%	7,271	6%	114,324	7,520	150,977	41,565	8,110	200,653				
TW	2013	34	34	7,530	6,146	87,091	85%	14,219	14%	1,042	1%	102,352	2,580	81,547	74%	21,028	19%	7,554	7%	110,128	8,725	168,638	35,247	8,595	212,480				
TW	2014	34	35	6,735	5,784	103,391	87%	14,316	12%	1,200	1%	118,908	2,611	93,281	79%	17,802	15%	7,167	6%	118,249	8,396	196,672	32,118	8,367	237,157				
TW	2015	34	34	5,080	4,661	80,117	76%	24,123	23%	1,465	1%	105,704	1,739	70,675	80%	12,918	15%	4,901	6%	88,494	6,403	150,832	37,050	6,368	194,250				
TW	2016	34	31	5,259	4,769	83,713	74%	28,785	25%	1,431	1%	113,928	1,502	56,887	78%	11,681	16%	4,544	6%	73,112	6,273	140,599	40,466	5,975	187,040				
TW	2017	31	31	5,412	5,113	69,086	72%	25,495	27%	863	1%	95,444	1,883	53,947	74%	14,127	20%	4,539	6%	72,613	6,997	123,061	39,633	5,404	168,098				

Table 7. (continued)

FLEET	YEAR	VESSELS		DAYS	UNASSOCIATED SCHOOLS								ASSOCIATED SCHOOLS								TOTAL				
		YB	LOG		SKIPJACK			YELLOWFIN		BIGEYE		TOTAL	SKIPJACK			YELLOWFIN		BIGEYE		TOTAL	SETS	MT	MT	BET	TOTAL
					SETS	MT	%	MT	%	MT	%	MT	SETS	MT	%	MT	%	MT	%	MT	SETS	MT	MT	MT	MT
US	2010	37	37	8,220	6,331	110,467	83%	21,541	16%	800	1%	132,808	2,397	87,208	78%	18,000	16%	7,128	6%	112,336	8,738	197,897	39,679	7,948	245,524
US	2011	37	36	8,048	3,008	46,841	78%	12,833	21%	269	0%	59,943	3,401	110,653	77%	21,475	15%	11,168	8%	143,297	6,409	157,494	34,308	11,437	203,240
US	2012	39	39	8,784	5,620	99,695	81%	23,223	19%	802	1%	123,720	3,464	109,363	80%	18,841	14%	7,777	6%	135,981	9,086	209,106	42,071	8,582	259,759
US	2013	40	41	8,388	5,022	95,411	91%	9,176	9%	437	0%	105,024	3,175	111,634	75%	25,138	17%	12,359	8%	149,131	8,201	207,136	34,322	12,812	254,271
US	2014	40	40	9,069	6,268	118,606	85%	20,670	15%	621	0%	139,897	3,717	143,556	83%	19,995	12%	9,557	6%	173,108	9,987	262,163	40,666	10,177	313,005
US	2015	39	39	6,984	5,901	110,471	88%	14,544	12%	766	1%	125,781	2,056	97,226	87%	10,428	9%	4,642	4%	112,296	7,957	207,697	24,973	5,408	238,077
US	2016	37	34	5,580	3,333	76,447	88%	9,624	11%	445	1%	86,515	2,177	92,997	81%	14,622	13%	7,002	6%	114,621	5,511	169,455	24,249	7,448	201,152
US	2017	34	33	5,601	2,664	47,514	80%	11,496	19%	507	1%	59,517	2,397	85,016	81%	14,642	14%	5,926	6%	105,583	5,063	132,548	26,147	6,441	165,136
VU	2010	5	5	872	469	10,691	81%	2,495	19%	91	1%	13,277	198	8,361	80%	1,458	14%	621	6%	10,440	668	19,054	3,954	712	23,720
VU	2011	6	4	1,142	287	5,351	80%	1,318	20%	25	0%	6,695	391	12,746	76%	2,852	17%	1,090	7%	16,688	678	18,097	4,170	1,115	23,382
VU	2012	6	3	775	472	9,638	65%	5,061	34%	128	1%	14,827	268	9,937	82%	1,465	12%	773	6%	12,175	740	19,574	6,526	902	27,002
VU	2013	6	4	974	607	11,700	87%	1,707	13%	84	1%	13,490	263	9,944	78%	2,016	16%	753	6%	12,712	870	21,643	3,723	836	26,202
VU	2014	3	3	685	362	8,798	89%	1,036	11%	72	1%	9,906	230	8,662	80%	1,559	14%	634	6%	10,855	592	17,459	2,595	706	20,761
VU	2015	3	3	293	104	1,618	96%	70	4%	3	0%	1,692	126	5,615	84%	737	11%	301	5%	6,652	229	7,232	807	304	8,344
VU	2016	3	3	164	40	1,319	95%	54	4%	8	1%	1,382	37	2,485	83%	207	7%	318	11%	3,011	77	3,805	262	326	4,393
VU	2017	3	3	209	96	1,468	76%	451	23%	13	1%	1,932	99	2,820	75%	467	12%	472	13%	3,759	195	4,287	918	486	5,691

Table 7. (continued)

YEAR	VESSELS		DAYS	UNASSOCIATED SCHOOLS										ASSOCIATED SCHOOLS										TOTAL				
	YB	LOG		SKIPJACK			YELLOWFIN			BIGEYE			TOTAL	SKIPJACK			YELLOWFIN			BIGEYE			TOTAL	SETS	SKJ	YFT	BET	TOTAL
				SETS	MT	%	MT	%	MT	%	MT	SETS	MT	%	MT	%	MT	%	MT									
2010	276	263	52,245	38,189	689,083	76%	211,511	23%	8,258	1%	908,853	13,000	420,817	74%	106,858	19%	43,347	8%	571,022	51,469	1,114,115	320,652	51,943	1,486,710				
2011	279	267	58,968	30,303	430,207	76%	132,987	23%	3,245	1%	566,442	21,793	623,503	74%	148,952	18%	66,798	8%	839,254	52,255	1,055,561	282,525	70,130	1,408,215				
2012	285	281	55,128	36,615	631,544	74%	207,777	25%	8,473	1%	847,795	20,606	612,776	77%	132,582	17%	53,576	7%	798,932	57,365	1,246,105	340,888	62,174	1,649,167				
2013	297	287	54,669	38,013	652,196	81%	148,074	18%	8,839	1%	809,106	17,786	561,323	73%	149,435	19%	60,786	8%	771,541	55,904	1,215,261	298,446	69,823	1,583,531				
2014	308	300	54,310	38,802	755,281	79%	194,907	20%	9,895	1%	960,084	18,413	649,234	78%	127,355	15%	54,351	7%	830,940	57,300	1,406,217	323,014	64,569	1,793,800				
2015	306	291	42,602	33,710	693,273	79%	172,101	20%	10,799	1%	876,173	13,596	558,436	80%	100,277	14%	36,447	5%	695,159	47,449	1,255,380	274,099	47,644	1,577,123				
2016	293	252	43,882	31,812	649,088	75%	210,998	24%	10,804	1%	870,888	14,072	537,898	77%	113,258	16%	46,647	7%	697,803	46,060	1,190,891	326,222	57,988	1,575,102				
2017	282	258	47,091	33,316	529,635	68%	237,844	31%	9,053	1%	776,528	16,153	496,351	76%	117,727	18%	41,888	6%	655,961	49,752	1,031,547	358,568	51,247	1,441,363				

Notes:

1. Estimates are based on aggregate data and raised logsheet data with species composition adjusted using observer sampling with grab sample bias correction. Note that these estimates may differ from the annual catch estimates provided by CCMs.
2. Estimates exclude domestic purse seine catch/effort in Philippines, Indonesia and Vietnam.
3. Two sources of estimates of vessel numbers are provided (i) those provided by CCMs with their annual catch estimates (and therefore appear in the WCPFC Yearbook) and (ii) estimates of vessel numbers from unraised operational data available to SPC.
4. The estimate of Japanese purse seine vessels fishing in the tropical fishery (20°N-20°S) has been determined by only considering vessel numbers in the categories >200 GRT.
5. There are several instances where vessel numbers from unraised logbook data are higher than the vessel numbers provided by the CCM. The reasons for these occurrences include: (i) situations where one vessel became inactive during the calendar year and was replaced by a new vessel – the vessel number from the operational data is based on a count of the total distinct vessels fishing throughout the year; (ii) instances where there are inconsistencies in the charter/flag assignment between the vessel numbers provided by CCMs and the operational logsheet data (e.g. Philippine-flagged vessels chartered to PNG – this will require follow-up and clarification with relevant CCMs).
6. ASSOCIATED covers sets on Drifting FAD, Log and Anchored FAD. Catch/effort for sets on ANIMALS is not shown separately but are included in the TOTAL.
7. Includes Catch and Effort in Archipelagic Waters.
8. Total Associated sets may differ from values provided in Table 3. The reasons for the differences include, (i) sets in archipelagic waters are included in this table but not in Table 3, (ii) the raising process in Table 3 is undertaken at the EEZ/AW level while the raising in this Table is undertaken at the WCPFC Area level; this will be an issue in cases where logbook coverage is not 100%. Future versions of Tables 3 and 7 will be reconciled.

Fleet Codes

CN	- China	ES	- EU-Spain	FM	- FSM		
JP	- Japan	KI	- Kiribati	KR	- Republic of Korea		
MH	- Marshall Islands	NZ	- New Zealand	PG	- PNG		
PH	- Philippines (DW)	SB	- Solomon Is.	SV	- El Salvador		
TV	- Tuvalu	TW	- Chinese Taipei	US	- USA	VU	- Vanuatu

Table 8. Longline effort (100s of hooks) in the tropical WCPFC LONGLINE fishery (20°N-10°S), by fleet, 2010-2017.

FLEET	LONGLINE EFFORT (100s of Hooks)							
	2010	2011	2012	2013	2014	2015	2016	2017
CK	13,422	16,809	32,818	16,880	10,880	11,761	38,405	17,227
CN	558,006	741,473	838,710	653,046	554,203	856,023	643,894	490,233
FJ	27,971	94,017	172,330	136,376	128,960	83,827	88,725	39,249
FM	76,704	94,564	110,591	85,598	74,842	149,576	183,728	161,272
JP	591,056	544,105	513,557	453,786	393,605	346,620	284,722	280,252
KI	0	19,626	45,193	27,577	23,868	36,636	66,975	26,276
KR	728,899	803,678	771,103	626,874	603,157	506,797	587,646	473,333
MH	16,828	16,763	20,679	6,286	0	585	63,218	139,737
PF	0	242	147	246	437	18	1,123	13,024
PG	24,589	51,692	40,188	14,849	19,232	7,897	8,997	2,173
PW	0	0	0	0	0	0	626	1,935
SB	66,324	12,757	5,497	2,793	457,456	582,324	5,228	625
TV	3,436	26,925	69,189	16,219	16,809	18,844	12,927	16,220
TW	1,309,957	1,586,000	1,710,738	1,238,811	1,031,881	1,207,708	1,291,770	1,353,763
US	127,121	135,232	152,740	128,813	147,964	181,589	240,724	216,719
VU	76,507	89,530	127,777	186,070	130,340	286,797	202,711	127,865
	3,620,819	4,233,413	4,611,259	3,594,223	3,593,634	4,277,002	3,721,418	3,359,902

Notes:

1. Estimates are based on available aggregate data for the WCPFC Area, 20°N-10°S.
2. Estimates exclude domestic longline effort for Philippines, Indonesia and Vietnam fleets.
3. Excluding vessels targeting South Pacific Albacore is not possible at this stage for a number of reasons – the main reason being the lack of operational data. In the absence of complete operational data (which would include targeting information), the area 20°N-10°S has been selected as the area which best minimises both South and North Pacific albacore targeting.

Fleet Codes

CK	- Cook Islands
CN	- China
FJ	- Fiji
FM	- FSM
JP	- Japan
KI	- Kiribati
KR	- Korea
MH	- Marshall Is.
PF	- French Polynesia
PG	- PNG
PW	- Palau
SB	- Solomon Is.
TV	- Tuvalu
TW	- Chinese Taipei
US	- USA
VU	- Vanuatu

Table 9. Annual purse seine bigeye tuna catches, by fleet, 2010-2017.

CCM	2010	2011	2012	2013	2014	2015	2016	2017	55% of average 2010-2012 BET catch
AUSTRALIA	0	0	0	0	0	0	0	0	0
CHINA	2,224	4,318	2,512	3,645	2,705	1,745	317	509	1,660
ECUADOR	1,597	3,219	3,826	3,242	2,225	1,764	600	2,312	1,584
EL SALVADOR	1,142	1,856	1,956	2,063	1,952	482	269	722	908
EU-SPAIN	4,136	6,057	5,487	7,313	5,101	1,877	1,527	2,117	2,875
FSM	1,035	1,142	1,771	1,131	1,622	1,592	3,695	3,332	724
INDONESIA	2,038	1,746	1,940	4,507	2,054	2,049	3,178	1,071	1,049
JAPAN	4,152	4,432	5,870	5,219	6,516	5,852	4,681	2,646	2,650
KIRIBATI	1,940	3,664	2,018	3,751	4,237	2,937	8,045	7,804	1,397
MARSHALL ISLANDS	3,425	7,715	4,192	4,429	3,453	2,506	2,313	4,726	2,811
NEW ZEALAND	407	545	238	383	258	64	77	226	218
PAPUA NEW GUINEA	6,282	4,332	7,008	5,962	7,594	6,669	8,995	7,171	3,231
PHILIPPINES	4,720	2,166	4,388	3,632	4,219	5,089	3,605	2,457	2,067
REPUBLIC OF KOREA	6,863	7,883	5,303	5,502	5,034	5,190	9,486	6,405	3,676
SOLOMON ISLANDS	349	982	602	697	459	395	933	473	354
CHINESE TAIPEI	6,570	8,330	8,110	8,595	8,367	6,368	5,975	5,404	4,219
TUVALU	171	200	363	260	171	60	141	123	135
USA	7,948	11,437	8,582	12,822	10,177	5,422	7,448	6,441	5,127
VANUATU	712	1,115	830	641	698	304	326	296	487
	55,711	71,139	64,996	73,794	66,842	50,365	61,611	54,235	
VIETNAM	325	688	965	805	1,192	1,394	2,081	1,959	363

Notes:

1. Excludes archipelagic waters. Fleets from Indonesia, Kiribati, Papua New Guinea, Philippines (domestic) and Solomon Islands in this list are normally the only fleets active in archipelagic waters.
2. The Vietnam purse seine fleet are understood to fish outside the WCFPC Convention Area (South China Sea).
3. Purse seine tuna species catch estimates (including bigeye tuna catch) have been adjusted using observer data (except for Japan purse seine catch, which is undertaken by Japan using unloadings and port sampling data).

Table 10. High seas FAD sets, by fleet, during 2017.

CCM	2017	Notes
CHINA	0	
ECUADOR	0	4, 5
EL SALVADOR	32	4
EU-SPAIN	128	4
FSM	38	
JAPAN	1	
KIRIBATI	276	7
MARSHALL ISLANDS	423	4
NEW ZEALAND	66	4
PAPUA NEW GUINEA	2	
PHILIPPINES	0	6
REPUBLIC OF KOREA	6	
SOLOMON ISLANDS	22	4
CHINESE TAIPEI	2	
TUVALU	40	4
USA	3	
VANUATU	78	3

Notes

1. This table has been prepared considering the language of CMM 2016-01 paragraph 18 footnote 5 that states “The high seas FAD closure in paragraph 18 does not apply in 2017 to a CCM that has achieved a verifiable reduction in bigeye catches by its purse seine vessels to 55% from current levels (2010-2012), to be reviewed on the basis of the advice of the Scientific Committee. A CCM that has qualified for the above mentioned exemption shall maintain a verifiable reduction in bigeye catches by its purse seine vessels to 55% from the reference levels (2010-2012) also in the course of 2017.”
2. High seas FAD sets for 2017 are sourced from operational logbook data noting that some data are provisional at this stage.
3. The sets presented in Table 10 exclude effort in the overlap area because it takes into account the WCPFC9 decision on the application of measures in the part of the WCPF Convention Area that overlaps with the IATTC Convention Area (WCPFC9 Summary Report paragraph 80). European Union is a WCPFC member who is also an IATTC member, notified WCPFC in April 2013, of their choice of IATTC measures in the overlap area. Given that Ecuador and El Salvador are members of IATTC, the rules of the RFMO of which it is a member apply in the overlap area between WCPFC and IATTC, even if the CCM is a cooperating non-member of the other RFMO.
4. At WCPFC13, the discussions confirmed that paragraph 18 measures would be implemented in 2017 and that the following fleets would had qualified for and would apply footnote 5 of CMM 2016-01: El Salvador, Ecuador, European Union, Republic of Marshall Islands, New Zealand, Solomon Islands, Tuvalu and Vanuatu.
5. Despite Note 4, WCPFC13 determined Ecuador’s participatory rights were zero days in the high seas of the Convention Area in 2017.
6. The measures that the Philippines will take are in Attachment C of CMM 2016-01. In 2017, the Philippines expended 2,696 days in the HSP1 during 2017 and no reported purse seine effort in any other high seas areas.
7. In addition to the FAD measures 2015 and 2016, except for those Kiribati flagged vessels fishing in the adjacent high seas, it shall be prohibited to set on FADs in the high seas, unless the Commission decides on other alternative measures at its 2014 or 2015 or 2016 annual meeting.