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CATCH AND EFFORT TABLES ON TROPICAL TUNA CMMS

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¹ This paper is an update of TCC14 meeting paper (**TCC14-2018-IP08**) and 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	227	8	6	2	8	3	29	45	19	104	481	203	354	355	208	497	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	466	432	483	644	750	598	451	285	319	224	498	1,127	2,425	1,372	988	1,809	2,329	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	560	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	1,119	1,054	1,054	1,196	1,370	975	661	431	358	837	1,137	885	875	1,125	925	2,4,6,8,20
SAMOA	7	11	3	4	3	1	3	7	9	7	39	29	35	15	32	82	11	150	2
TOKELAU	99	395	27	67	127	33	48	137	217	189	871	726	402	644	1,335	193	719	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	298	131	191	106	61	127	30	44	205	190	247	98	106	143	1,828	2, 22
VANUATU	2	2	0	23	1	0	0	14	1	0	4	5	1	0	4	0	1	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)	24,937	27,247	29,339	30,500	32,344	32,081	31,724	34,403	32,677	44,150	47,363	41,993	43,544	42,634	30,936	35,293	36,874		5, 12
PNA AWs only	2,427	2,215	3,567	3,099	4,667	3,921	5,714	6,256	7,018	6,267	8,671	8,822	7,630	6,783	3,828	3,677	5,359		5
PNA EEZs + AWs = TOTAL PNA	27,364	29,462	32,906	33,599	37,011	36,002	37,438	40,659	39,695	50,417	56,034	50,815	51,174	49,417	34,764	38,970	42,233		5
TOTAL EEZs - excl. PNA AWs	29,219	32,086	33,523	35,350	36,411	35,600	35,432	37,269	34,910	45,905	49,856	45,509	48,428	46,872	35,525	39,388	42,394		
TOTAL EEZs - excl. PNA AWs and ID/PH	28,027	30,878	31,963	33,587	34,607	33,948	33,785	35,614	33,616	45,020	48,927	44,024	45,166	44,363	33,652	36,704	38,940		
TOTAL EEZs + PNA AWs	31,674	34,318	37,118	38,458	41,082	39,523	41,146	43,532	41,935	52,173	58,530	54,332	56,058	53,656	39,355	43,067	47,753	55,863	
TOTAL INT. WATERS (20°N-20°S)	7,351	8,208	8,235	10,240	8,763	6,607	8,199	8,544	10,065	1,500	1,526	2,215	6,154	5,681	8,393	6,902	6,545		6,8,11
TOTAL (EEZs + IW + PNA AWs)	39,025	42,526	45,353	48,698	49,845	46,130	49,345	52,076	52,000	53,673	60,056	56,547	62,212	59,337	47,748	49,969	54,298	62,408	
TOTAL minus ID/PH	37,333	40,818	43,293	46,435	47,541	43,978	47,198	49,921	50,206	52,788	59,127	55,062	58,950	56,828	45,875	47,285	50,844	58,954	
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 includes 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																				
Flag	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	CMM limits for 2015, 2016, 2017 (Att. D)	Max. Annual days for 2010-2012	See Notes
CHINA	88	125	149	426	507	231	334	251	918	13	7	26	16	9	22	23	4	26	26	11
ECUADOR	0	0	0	0	0	0	25	10	12	3	3	13	0	1	0	0	1	**	13	7,9
EL SALVADOR	2	27	0	0	0	0	197	200	78	46	33	31	24	48	54	24	29	**	46	7,9
EUROPEAN UNION	0	7	13	53	29	73	231	275	243	321	312	417	367	373	246	87	192	403	417	7
FSM	239	240	176	384	218	86	168	126	336	6	3	14	7	11	465	391	543			
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	55	40	36	50	52	22	34	161	97	246	183	184	861	710	884	672			11
MARSHALL ISLANDS	170	209	442	397	400	154	177	284	173	68	34	2	5	9	835	395	630			
NEW ZEALAND	23	329	344	206	97	289	200	196	206	67	30	93	14	19	145	116	85	160		10
PAPUA NEW GUINEA	416	621	633	1,208	1,300	465	849	713	833	83	23	41	17	44	1,124	100	28	#		
PHILIPPINES	13	56	449	464	320	151	26	73	20	2	0	3	4,096	2,668	2,442	2,646	2,700	4,669		4,5
REPUBLIC OF KOREA	1,303	1,283	1,153	1,244	1,069	732	1,389	1,518	1,703	227	64	25	32	198	219	215	195	207	227	
SOLOMON ISLANDS	32	37	0	0	17	15	5	0	0	0	0	1	0	0	0	26	59			
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	1,241	1,485	1,329	1,421	76	82	23	73	49	86	93	112	95	82	
USA	972	1,318	860	986	772	528	792	1,553	1,733	398	572	1,238	1,047	1,147	1,658	1,457	835	1,270	1,238	
VANUATU	67	166	186	579	378	401	379	166	64	37	31	7	8	3	0	163	205			
TOTAL	7,204	8,102	8,142	10,194	8,723	6,498	8,125	8,285	10,003	1,454	1,448	2,119	5,903	5,449	8,190	6,791	6,397			

PURSE SEINE DAYS FISHED in WCPFC-IATTC OVERLAP AREA																				
Flag	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017			See Notes
ECUADOR	0	0	0	0	0	0	43	174	74	51	39	82	89	67	91	12	178			7
EL SALVADOR	21	33	3	0	0	0	25	129	24	19	22	4	127	154	44	67	34			7
EUROPEAN UNION	126	74	90	48	40	111	34	28	13	16	17	11	35	18	71	38	15			7
TOTAL	147	107	93	48	40	111	102	331	111	86	78	97	251	239	206	117	227			

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	496		738		CHINA	
0	0	0	0	0	0	74	367	138	220	440	442	275	343	143	50	249		104		ECUADOR	
10	27	1	0	0	0	54	155	162	135	185	212	297	306	176	94	75		52		EL SALVADOR	
77	33	59	81	46	125	242	412	328	363	488	460	515	431	327	93	149		149		EUROPEAN UNION	
324	386	489	790	497	282	338	479	737	417	788	820	537	605	620	521	914	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	664	887	638	2,139	1,867		JAPAN	
72	62	63	97	104	66	61	78	267	243	552	486	667	823	1,078	470	1,878	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	29	81		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	1,664		1,972		PAPUA NEW GUINEA	
901	1,034	1,240	1,197	1,131	848	246	536	552	375	401	622	486	393	356	282	29		403		PHILIPPINES (distant-water)	
?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?					PHILIPPINES (domestic)
551	1,220	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	1,904	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	1,873		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	2,068	1,315	1,543	1,393	2,757	3,777	2,384	3,388	3,432	3,156	3,696	2,029	2,126	2,401	2,522	2,202		USA	
36	143	182	655	528	467	626	172	242	169	391	261	260	229	124	37	123		306		VANUATU	
9,423	11,852	11,081	18,737	13,794	15,783	14,062	15,371	17,958	10,550	18,261	17,436	15,123	16,267	11,998	10,523	14,207		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	658	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	298			(4)
EU-PORTUGAL	0	0	0	0	0	0	0	0	0	0	3	17	106	71	17	10	0			
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	0			
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	14,316	12,169	11,669	18,265	16,860	
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	1,106			(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			
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	3,747	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	67,637	56,653	55,791	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	561	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	610	182	(4)
EU-PORTUGAL	0	0	0	0	0	0	0	0	0	0	0	0	2	22	4	6	0	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	8,683	10,149	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	1,352	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	1,093	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	87,028	63,798	66,986	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	SKJ	YFT	BET	TOTAL
					SETS	MT	%	MT	%	MT	%	MT	SETS	MT	%	MT	%	MT	%	MT					
CN	2010	12	10	2,784	2,095	21,525	74%	7,253	25%	253	1%	29,031	692	17,239	70%	5,323	22%	1,966	8%	24,529	2,788	38,874	12,611	2,229	53,714
CN	2011	12	10	4,019	1,396	11,377	74%	3,828	25%	112	1%	15,318	2,023	46,333	75%	11,684	19%	4,204	7%	62,222	3,419	57,710	15,513	4,317	77,540
CN	2012	13	12	2,205	706	9,867	71%	3,886	28%	150	1%	13,902	1,143	26,302	75%	6,595	19%	2,348	7%	35,246	1,849	36,169	10,481	2,499	49,148
CN	2013	14	12	3,623	2,350	26,743	86%	3,959	13%	270	1%	30,971	1,409	37,068	73%	10,078	20%	3,385	7%	50,531	3,760	64,043	14,113	3,673	81,828
CN	2014	19	18	3,153	1,443	17,640	84%	3,277	16%	197	1%	21,114	1,474	45,592	78%	9,475	16%	3,432	6%	58,499	2,917	63,232	12,752	3,628	79,612
CN	2015	20	16	2,011	913	12,054	75%	3,861	24%	273	2%	16,189	749	21,153	78%	4,373	16%	1,521	6%	27,047	1,662	33,207	8,234	1,795	43,236
CN	2016	2	6	504	401	5,679	69%	2,452	30%	138	2%	8,269	140	2,689	68%	1,023	26%	232	6%	3,944	544	8,430	3,507	375	12,311
CN	2017	3	2	764	93	483	83%	94	16%	8	1%	585	496	11,130	75%	2,631	18%	1,128	8%	14,889	589	11,613	2,725	1,135	15,473
EC	2010	14	6	319	21	121	69%	49	28%	4	2%	175	233	6,460	58%	2,535	23%	2,149	19%	11,145	254	6,582	2,585	2,154	11,320
EC	2011	8	7	556	41	207	24%	640	75%	3	0%	851	447	19,105	67%	4,050	14%	5,176	18%	28,332	488	19,312	4,691	5,180	29,183
EC	2012	8	7	605	17	363	63%	210	37%	2	0%	575	444	15,473	69%	3,277	15%	3,820	17%	22,570	461	15,837	3,487	3,822	23,145
EC	2013	7	7	466	70	2,057	90%	180	8%	43	2%	2,280	284	13,404	70%	2,566	13%	3,192	17%	19,162	355	15,461	2,746	3,235	21,442
EC	2014	7	7	478	57	1,133	87%	147	11%	18	1%	1,297	360	15,766	77%	1,965	10%	2,810	14%	20,542	417	16,899	2,112	2,828	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	3	42	0	0	0%	0	0%	0	0%	0	50	2,614	67%	422	11%	889	23%	3,925	50	2,614	422	889	3,925
EC	2017	4	4	241	2	77	77%	23	23%	0	0%	100	248	10,081	67%	2,000	13%	3,079	20%	15,161	250	10,158	2,023	3,079	15,261
ES	2010	4	4	720	26	704	86%	110	13%	5	1%	820	364	19,763	69%	4,700	16%	4,185	15%	28,648	390	20,467	4,810	4,191	29,468
ES	2011	4	4	753	30	419	31%	908	68%	7	1%	1,334	488	27,102	71%	4,976	13%	6,039	16%	38,117	518	27,521	5,884	6,046	39,451
ES	2012	4	4	787	57	1,861	67%	878	32%	28	1%	2,767	461	19,352	66%	4,569	16%	5,483	19%	29,404	517	21,213	5,446	5,511	32,171
ES	2013	4	4	837	56	2,744	91%	276	9%	7	0%	3,026	515	28,629	66%	7,110	17%	7,402	17%	43,141	571	31,373	7,386	7,408	46,167
ES	2014	4	4	753	89	2,915	69%	1,288	31%	10	0%	4,213	431	27,581	76%	3,559	10%	5,107	14%	36,247	520	30,496	4,847	5,117	40,460
ES	2015	4	4	534	28	1,286	94%	82	6%	0	0%	1,368	326	26,849	84%	3,086	10%	1,906	6%	31,840	355	28,135	3,167	1,906	33,208
ES	2016	2	2	127	1	0	0%	0	0%	0	0%	0	92	6,208	73%	781	9%	1,519	18%	8,508	93	6,208	781	1,519	8,508
ES	2017	2	2	207	0	0	0%	0	0%	0	0%	0	149	8,244	72%	1,265	11%	2,023	18%	11,532	149	8,244	1,265	2,023	11,532
FM	2010	7	8	1,305	612	8,647	81%	1,905	18%	92	1%	10,645	419	10,375	74%	2,662	19%	1,041	7%	14,078	1,031	19,022	4,568	1,133	24,723
FM	2011	7	7	1,641	483	5,806	76%	1,804	24%	50	1%	7,661	790	13,394	71%	4,357	23%	1,082	6%	18,832	1,276	19,208	6,164	1,133	26,505
FM	2012	9	9	1,573	464	6,310	75%	2,053	24%	70	1%	8,432	826	21,722	79%	4,134	15%	1,679	6%	27,535	1,301	28,254	6,219	1,760	36,233
FM	2013	10	10	1,384	450	8,979	86%	1,342	13%	99	1%	10,420	539	13,119	75%	3,133	18%	1,212	7%	17,464	989	22,098	4,475	1,311	27,884
FM	2014	10	10	1,414	611	13,082	85%	2,112	14%	235	2%	15,429	614	17,144	76%	4,102	18%	1,400	6%	22,646	1,225	30,225	6,214	1,635	38,075
FM	2015	12	13	1,883	1,212	26,108	83%	4,995	16%	349	1%	31,452	627	19,515	80%	3,522	15%	1,253	5%	24,290	1,839	45,624	8,517	1,602	55,743
FM	2016	16	18	2,751	1,065	21,362	79%	5,235	19%	417	2%	27,014	1,137	34,229	77%	7,162	16%	3,285	7%	44,675	2,202	55,591	12,397	3,701	71,689
FM	2017	19	19	3,525	1,870	31,120	76%	9,529	23%	336	1%	40,984	1,435	30,738	73%	8,433	20%	3,080	7%	42,250	3,313	61,971	18,021	3,444	83,437
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	3,385	84,650	73%	29,442	25%	2,688	2%	116,779	664	20,215	69%	6,594	23%	2,471	8%	29,280	4,175	108,111	37,532	5,463	151,106
JP	2016	37	31	5,006	4,177	85,282	78%	23,535	22%	764	1%	109,581	887	27,499	77%	6,840	19%	1,212	3%	35,552	5,143	114,950	31,033	2,014	147,997
JP	2017	38	32	4,697	3,898	82,043	75%	26,750	24%	1,058	1%	109,850	638	21,769	82%	3,677	14%	1,045	4%	26,491	4,659	106,754	31,604	2,230	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	7,488	80%	1,835	20%	73	1%	9,396	245	11,672	74%	2,246	14%	1,772	11%	15,691	741	19,622	4,229	1,895	25,746
KI	2011	7	7	1,429	785	9,417	71%	3,742	28%	73	1%	13,232	554	25,152	76%	4,459	13%	3,580	11%	33,190	1,347	34,628	8,219	3,667	46,514
KI	2012	9	9	1,845	1,592	29,793	78%	8,028	21%	309	1%	38,130	491	19,403	81%	2,961	12%	1,712	7%	24,076	2,091	49,382	11,023	2,027	62,432
KI	2013	12	12	2,007	1,443	26,827	81%	6,150	19%	281	1%	33,259	669	28,958	74%	6,602	17%	3,422	9%	38,982	2,113	55,786	12,752	3,703	72,241
KI	2014	14	15	2,820	2,188	45,380	77%	13,198	22%	314	1%	58,893	831	41,023	82%	5,361	11%	3,898	8%	50,281	3,019	86,403	18,559	4,212	109,174
KI	2015	21	21	2,942	2,563	62,273	87%	9,289	13%	419	1%	71,981	1,085	56,049	87%	6,076	9%	2,591	4%	64,716	3,649	118,322	15,364	3,010	136,697
KI	2016	27	23	4,552	2,360	50,927	82%	10,631	17%	610	1%	62,168	1,886	81,390	80%	12,554	12%	7,375	7%	101,319	4,246	132,318	23,186	7,986	163,489
KI	2017	19	21	4,622	1,815	29,563	73%	10,918	27%	309	1%	40,789	2,526	88,531	80%	15,945	14%	6,842	6%	111,318	4,342	118,118	26,867	7,152	152,138
KR	2010	29	28	7,178	6,308	146,528	72%	56,372	28%	2,127	1%	205,027	1,117	56,732	79%	10,744	15%	4,731	7%	72,206	7,433	203,316	67,134	6,863	277,313
KR	2011	28	28	6,552	4,493	80,107	73%	28,652	26%	643	1%	109,402	2,128	73,844	75%	16,999	17%	7,263	7%	98,107	6,627	154,096	45,694	7,914	207,704
KR	2012	28	28	5,836	6,099	142,435	77%	41,907	23%	1,523	1%	185,865	1,433	62,721	82%	9,818	13%	3,787	5%	76,326	7,533	205,156	51,725	5,310	262,191
KR	2013	27	28	5,983	6,068	131,442	81%	29,927	18%	1,824	1%	163,192	1,171	48,392	78%	10,361	17%	3,685	6%	62,439	7,239	179,834	40,288	5,509	225,631
KR	2014	28	29	5,437	5,820	162,722	81%	36,245	18%	1,255	1%	200,221	1,097	58,273	84%	7,811	11%	3,743	5%	69,827	6,917	220,995	44,055	4,998	270,048
KR	2015	25	26	4,763	4,615	132,542	83%	25,499	16%	1,343	1%	159,384	1,540	96,553	87%	10,365	9%	3,976	4%	110,894	6,155	229,095	35,864	5,319	270,278
KR	2016	25	25	4,702	4,211	130,762	78%	36,058	21%	1,793	1%	168,612	1,588	88,980	81%	13,230	12%	7,632	7%	109,843	5,799	219,742	49,288	9,425	278,455
KR	2017	26	26	5,563	4,866	99,303	69%	43,013	30%	1,312	1%	143,629	1,906	83,245	81%	14,157	14%	5,800	6%	103,202	6,775	182,548	57,170	7,113	246,831
MH	2010	10	10	1,670	1,228	19,409	78%	5,236	21%	258	1%	24,903	636	24,975	74%	5,431	16%	3,313	10%	33,718	1,881	44,776	10,798	3,587	59,162
MH	2011	10	10	2,521	547	7,820	82%	1,696	18%	44	1%	9,561	1,550	60,362	75%	12,713	16%	7,547	9%	80,622	2,097	68,182	14,409	7,592	90,183
MH	2012	10	10	1,989	748	11,148	68%	5,105	31%	122	1%	16,375	1,394	45,318	79%	7,732	14%	4,170	7%	57,220	2,142	56,466	12,837	4,292	73,595
MH	2013	10	10	2,132	1,075	17,785	89%	2,193	11%	100	1%	20,077	1,167	42,783	74%	10,385	18%	4,327	8%	57,494	2,243	60,609	12,594	4,431	77,634
MH	2014	12	11	2,131	1,127	19,027	88%	2,439	11%	130	1%	21,596	1,219	42,960	79%	7,991	15%	3,350	6%	54,300	2,346	61,986	10,429	3,480	75,896
MH	2015	12	12	2,203	1,839	35,354	94%	2,161	6%	83	0%	37,598	1,063	41,236	84%	5,603	11%	2,433	5%	49,271	2,903	76,590	7,764	2,515	86,869
MH	2016	10	10	1,975	1,305	23,682	85%	4,162	15%	184	1%	28,027	671	26,439	80%	4,363	13%	2,145	7%	32,946	1,976	50,120	8,524	2,329	60,973
MH	2017	10	10	2,151	537	7,262	76%	2,181	23%	110	1%	9,553	1,319	41,582	75%	9,204	17%	4,444	8%	55,231	1,858	48,844	11,385	4,555	64,784
NZ	2010	4	4	564	371	8,042	97%	236	3%	9	0%	8,288	192	7,861	82%	1,312	14%	421	4%	9,594	564	15,903	1,549	430	17,882
NZ	2011	4	4	461	140	2,726	86%	454	14%	5	0%	3,185	193	5,833	77%	1,176	16%	549	7%	7,557	333	8,558	1,629	554	10,742
NZ	2012	4	4	471	288	5,381	87%	810	13%	26	0%	6,217	162	3,809	81%	638	14%	231	5%	4,678	450	9,190	1,447	257	10,895
NZ	2013	4	4	306	173	4,938	94%	318	6%	10	0%	5,265	120	4,343	80%	736	14%	373	7%	5,453	293	9,281	1,055	383	10,719
NZ	2014	5	5	301	173	3,675	87%	538	13%	19	0%	4,233	157	4,688	86%	523	10%	241	4%	5,453	330	8,363	1,061	260	9,685
NZ	2015	2	2	263	276	4,850	88%	571	10%	89	2%	5,510	51	2,378	88%	247	9%	88	3%	2,713	327	7,227	818	177	8,222
NZ	2016	2	2	182	241	4,869	97%	124	3%	42	1%	5,035	36	2,288	85%	242	9%	166	6%	2,697	277	7,157	366	209	7,732
NZ	2017	1	1	92	15	569	88%	80	12%	1	0%	650	81	2,919	78%	561	15%	243	7%	3,723	96	3,489	641	244	4,373
PG	2010	45	48	8,914	5,461	90,449	74%	31,358	26%	1,286	1%	123,093	2,659	56,763	69%	20,138	25%	5,040	6%	81,940	8,125	147,329	51,522	6,333	205,184
PG	2011	49	50	9,202	4,733	65,370	77%	18,696	22%	430	1%	84,496	3,289	62,235	73%	19,452	23%	4,114	5%	85,801	8,035	127,884	38,234	4,564	170,682
PG	2012	51	50	9,817	6,335	95,602	69%	40,627	30%	1,539	1%	137,768	3,210	69,245	71%	22,993	24%	5,430	6%	97,668	9,589	165,351	63,798	7,015	236,163
PG	2013	51	50	8,961	6,040	88,890	72%	32,294	26%	1,667	1%	122,851	2,454	48,723	67%	19,295	27%	4,372	6%	72,389	8,509	137,799	51,688	6,060	195,547
PG	2014	55	51	9,640	6,326	105,433	74%	35,194	25%	1,856	1%	142,483	2,395	68,242	74%	17,724	19%	5,811	6%	91,777	8,744	174,056	53,111	7,713	234,881
PG	2015	53	54	6,689	5,660	107,611	74%	35,162	24%	2,098	1%	144,870	1,586	51,727	74%	13,398	19%	4,488	6%	69,613	7,251	159,356	48,567	6,588	214,511
PG	2016	67	38	8,538	7,222	124,085	66%	61,625	33%	3,123	2%	188,832	2,091	73,515	75%	18,499	19%	5,747	6%	97,760	9,343	198,529	80,585	8,971	288,085
PG	2017	67	58	10,785	10,281	136,777	60%	87,671	39%	3,143	1%	227,591	2,072	50,532	71%	17,396	24%	3,559	5%	71,487	12,462	189,292	106,381	6,818	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	SKJ	YFT	BET	TOTAL
					SETS	MT	%	MT	%	MT	%	MT	SETS	MT	%	MT	%	MT	%	MT					
PH	2010	25	24	4,480	2,339	30,744	64%	16,963	35%	725	2%	48,432	777	16,411	64%	7,217	28%	1,857	7%	25,485	3,222	48,181	24,754	2,662	75,596
PH	2011	25	23	5,694	3,201	41,597	72%	16,063	28%	295	1%	57,955	1,275	21,592	68%	9,296	29%	967	3%	31,855	4,574	64,025	25,692	1,299	91,016
PH	2012	21	28	6,276	4,330	51,597	63%	29,351	36%	1,350	2%	82,298	1,650	29,747	67%	12,872	29%	2,096	5%	44,716	6,031	81,967	42,374	3,477	127,818
PH	2013	27	27	4,808	3,175	35,390	55%	27,427	43%	1,210	2%	64,027	1,363	22,273	58%	13,849	36%	2,221	6%	38,343	4,584	58,306	41,696	3,486	103,488
PH	2014	27	29	4,940	3,771	57,933	63%	31,885	35%	1,546	2%	91,363	1,112	19,331	63%	9,614	31%	1,932	6%	30,877	4,904	77,475	41,627	3,505	122,607
PH	2015	23	21	2,888	1,981	24,832	56%	18,683	42%	1,075	2%	44,591	834	15,773	53%	11,459	38%	2,724	9%	29,957	2,824	41,014	30,358	3,888	75,260
PH	2016	17	16	1,992	1,603	27,192	59%	17,976	39%	902	2%	46,070	548	15,443	65%	6,648	28%	1,604	7%	23,695	2,199	43,575	25,140	2,679	71,394
PH	2017	12	7	1,309	1,006	12,317	51%	11,268	47%	499	2%	24,083	164	2,835	56%	2,081	41%	122	2%	5,039	1,202	15,609	13,755	646	30,009
SB	2010	5	5	485	95	2,082	60%	1,370	39%	28	1%	3,480	353	6,606	68%	2,802	29%	329	3%	9,737	448	8,688	4,172	357	13,217
SB	2011	5	5	1,006	119	2,271	80%	555	20%	11	0%	2,836	742	13,326	59%	8,788	39%	611	3%	22,726	861	15,597	9,343	622	25,562
SB	2012	5	5	1,094	98	1,555	74%	540	26%	1	0%	2,096	833	15,524	64%	8,286	34%	593	2%	24,404	931	17,080	8,826	594	26,500
SB	2013	5	5	1,093	213	2,959	66%	1,506	33%	44	1%	4,510	664	12,829	63%	6,803	34%	628	3%	20,259	876	15,788	8,309	672	24,769
SB	2014	5	5	1,212	269	3,650	46%	4,207	54%	13	0%	7,869	787	12,047	53%	10,055	45%	453	2%	22,554	1,056	15,697	14,262	465	30,425
SB	2015	8	6	1,343	389	5,656	60%	3,675	39%	52	1%	9,383	787	10,806	56%	8,262	43%	341	2%	19,410	1,176	16,463	11,936	394	28,792
SB	2016	8	8	2,172	1,020	15,153	64%	8,499	36%	202	1%	23,854	1,061	17,925	57%	12,911	41%	714	2%	31,550	2,094	33,276	21,560	934	55,770
SB	2017	10	9	2,052	1,113	13,085	62%	7,754	37%	178	1%	21,018	867	15,058	61%	8,980	36%	653	3%	24,691	1,980	28,145	16,737	831	45,713
SV	2010	2	2	210	3	21	75%	7	25%	0	0%	28	136	4,833	66%	1,350	18%	1,160	16%	7,344	139	4,854	1,357	1,160	7,372
SV	2011	2	2	268	3	18	21%	67	79%	0	0%	85	185	8,728	72%	1,548	13%	1,865	15%	12,141	188	8,746	1,615	1,865	12,226
SV	2012	2	2	300	4	15	100%	0	0%	0	0%	15	213	9,105	67%	2,174	16%	2,353	17%	13,632	217	9,120	2,174	2,353	13,647
SV	2013	4	4	404	13	340	83%	70	17%	2	1%	412	296	11,318	67%	2,827	17%	2,659	16%	16,805	309	11,659	2,897	2,661	17,217
SV	2014	4	4	485	92	1,974	98%	44	2%	1	0%	2,019	303	11,509	74%	1,988	13%	1,964	13%	15,461	394	13,482	2,032	1,965	17,480
SV	2015	2	2	185	7	0	0%	0	0%	0	0%	0	177	12,303	80%	1,969	13%	1,028	7%	15,300	184	12,303	1,969	1,028	15,300
SV	2016	3	2	112	6	676	100%	1	0%	0	0%	677	95	5,348	81%	603	9%	674	10%	6,626	101	6,024	604	674	7,303
SV	2017	1	2	72	2	29	44%	37	56%	0	0%	66	75	2,770	65%	628	15%	855	20%	4,253	78	2,799	665	856	4,319
TV	2010	1	1	271	319	6,898	77%	2,045	23%	53	1%	8,997	40	1,126	72%	319	21%	113	7%	1,557	359	8,024	2,364	166	10,554
TV	2011	1	1	311	283	4,362	82%	965	18%	24	0%	5,351	58	1,614	78%	281	14%	171	8%	2,066	341	5,975	1,246	195	7,417
TV	2012	1	1	271	301	3,258	59%	2,195	40%	46	1%	5,500	92	4,514	81%	720	13%	320	6%	5,554	393	7,772	2,916	366	11,054
TV	2013	1	1	273	353	6,808	88%	855	11%	58	1%	7,721	79	2,841	77%	655	18%	199	5%	3,695	432	9,648	1,510	257	11,416
TV	2014	1	1	159	146	3,206	87%	441	12%	28	1%	3,675	49	1,839	81%	284	13%	144	6%	2,268	195	5,046	725	173	5,943
TV	2015	1	1	186	174	3,590	97%	96	3%	4	0%	3,690	36	1,525	86%	186	10%	69	4%	1,780	210	5,115	283	72	5,470
TV	2016	1	1	234	93	2,458	98%	59	2%	4	0%	2,520	59	3,021	84%	434	12%	135	4%	3,590	152	5,479	492	139	6,110
TV	2017	2	2	161	84	2,103	69%	939	31%	15	1%	3,057	59	2,043	79%	313	12%	230	9%	2,586	143	4,146	1,252	245	5,643
TW	2010	34	30	7,865	6,413	94,784	77%	26,740	22%	1,084	1%	122,609	1,709	56,102	74%	14,644	19%	5,495	7%	76,241	8,122	150,886	41,384	6,580	198,849
TW	2011	34	31	8,841	4,798	55,001	79%	14,074	20%	405	1%	69,480	2,959	79,677	75%	18,874	18%	7,902	7%	106,454	7,757	134,679	32,948	8,307	175,934
TW	2012	34	33	7,051	4,617	61,291	71%	24,157	28%	881	1%	86,328	2,903	89,540	78%	17,560	15%	7,225	6%	114,324	7,520	150,831	41,717	8,105	200,653
TW	2013	34	34	7,530	6,146	86,900	85%	14,401	14%	1,051	1%	102,352	2,580	81,482	74%	21,088	19%	7,558	7%	110,128	8,725	168,382	35,489	8,610	212,480
TW	2014	34	35	6,735	5,784	103,456	87%	14,248	12%	1,203	1%	118,908	2,611	93,272	79%	17,760	15%	7,217	6%	118,249	8,396	196,728	32,009	8,420	237,157
TW	2015	34	34	5,080	4,661	80,153	76%	24,115	23%	1,436	1%	105,704	1,739	70,777	80%	12,821	15%	4,895	6%	88,494	6,403	150,970	36,945	6,334	194,250
TW	2016	34	31	5,259	4,769	83,743	74%	28,759	25%	1,430	1%	113,932	1,502	56,761	78%	11,814	16%	4,533	6%	73,109	6,273	140,504	40,573	5,963	187,040
TW	2017	31	31	5,413	5,112	64,930	68%	29,523	31%	1,001	1%	95,454	1,882	54,409	75%	13,677	19%	4,516	6%	72,602	6,995	119,370	43,207	5,519	168,097

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					
US	2010	37	37	8,220	6,331	110,734	83%	21,308	16%	767	1%	132,809	2,397	87,202	78%	17,864	16%	7,270	7%	112,336	8,738	198,156	39,311	8,057	245,524
US	2011	37	36	8,048	3,008	47,069	79%	12,601	21%	274	1%	59,943	3,401	110,969	77%	21,309	15%	11,018	8%	143,297	6,409	158,038	33,910	11,292	203,240
US	2012	39	39	8,784	5,620	99,347	80%	23,547	19%	827	1%	123,720	3,464	109,224	80%	18,959	14%	7,797	6%	135,981	9,086	208,619	42,513	8,627	259,759
US	2013	40	41	8,388	5,022	95,215	91%	9,368	9%	440	0%	105,024	3,175	111,876	75%	25,006	17%	12,249	8%	149,131	8,201	207,182	34,383	12,706	254,271
US	2014	40	40	9,069	6,268	118,677	85%	20,599	15%	621	0%	139,897	3,717	143,461	83%	20,056	12%	9,591	6%	173,108	9,987	262,138	40,655	10,212	313,005
US	2015	39	39	6,984	5,901	110,402	88%	14,617	12%	763	1%	125,781	2,056	97,125	87%	10,457	9%	4,714	4%	112,296	7,957	207,527	25,074	5,476	238,077
US	2016	37	34	5,580	3,333	76,416	88%	9,532	11%	568	1%	86,515	2,177	92,568	81%	14,994	13%	7,059	6%	114,621	5,511	168,994	24,529	7,629	201,152
US	2017	34	34	5,594	2,652	46,060	78%	12,878	22%	390	1%	59,328	2,405	83,939	79%	15,423	15%	6,623	6%	105,985	5,058	129,999	28,302	7,013	165,313
VU	2010	5	5	872	469	10,794	81%	2,396	18%	86	1%	13,277	198	8,359	80%	1,446	14%	635	6%	10,440	668	19,155	3,844	721	23,720
VU	2011	6	4	1,142	287	5,377	80%	1,292	19%	26	0%	6,695	391	12,829	77%	2,779	17%	1,080	7%	16,688	678	18,206	4,071	1,105	23,382
VU	2012	6	3	775	472	9,565	65%	5,129	35%	133	1%	14,827	268	9,944	82%	1,463	12%	768	6%	12,175	740	19,509	6,592	901	27,002
VU	2013	6	4	974	607	11,677	87%	1,730	13%	83	1%	13,490	263	9,935	78%	2,020	16%	758	6%	12,712	870	21,612	3,749	841	26,202
VU	2014	3	3	685	362	8,807	89%	1,027	10%	73	1%	9,906	230	8,663	80%	1,555	14%	638	6%	10,855	592	17,469	2,581	710	20,761
VU	2015	3	3	293	104	1,618	96%	70	4%	3	0%	1,692	126	5,613	84%	735	11%	305	5%	6,653	229	7,230	806	308	8,344
VU	2016	3	3	165	40	1,320	96%	54	4%	8	1%	1,382	37	2,484	83%	203	7%	325	11%	3,012	78	3,804	258	333	4,394
VU	2017	3	3	250	119	1,691	75%	539	24%	12	1%	2,242	122	3,471	75%	512	11%	620	14%	4,603	241	5,162	1,051	632	6,845

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	690,771	76%	210,004	23%	8,073	1%	908,855	13,000	421,334	74%	105,880	19%	43,808	8%	571,022	51,469	1,116,325	318,169	52,216	1,486,710
2011	279	267	58,968	30,303	431,274	76%	131,889	23%	3,277	1%	566,442	21,793	624,129	74%	149,043	18%	66,080	8%	839,254	52,255	1,057,249	281,518	69,449	1,408,215
2012	285	281	55,128	36,615	630,645	74%	208,523	25%	8,630	1%	847,795	20,606	612,542	77%	132,905	17%	53,482	7%	798,932	57,365	1,244,977	341,954	62,236	1,649,167
2013	297	287	54,669	38,013	651,083	80%	149,161	18%	8,863	1%	809,105	17,786	561,553	73%	149,441	19%	60,549	8%	771,541	55,904	1,214,373	299,546	69,612	1,583,531
2014	308	300	54,310	38,802	755,163	79%	195,003	20%	9,920	1%	960,084	18,413	649,059	78%	127,224	15%	54,658	7%	830,940	57,300	1,405,923	322,969	64,908	1,793,800
2015	306	291	42,607	33,709	692,979	79%	172,318	20%	10,675	1%	875,972	13,596	558,552	80%	100,134	14%	36,626	5%	695,313	47,449	1,255,242	274,181	47,700	1,577,123
2016	293	253	43,894	31,847	653,606	75%	208,702	24%	10,185	1%	872,488	14,057	539,401	77%	112,723	16%	45,246	6%	697,372	46,081	1,197,315	323,245	55,768	1,576,328
2017	282	263	47,497	33,465	527,412	68%	243,197	31%	8,372	1%	778,979	16,444	513,296	76%	116,883	17%	44,862	7%	675,043	50,191	1,046,262	363,051	53,535	1,462,847

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	1,135	1,660
ECUADOR	1,597	3,219	3,826	3,242	2,225	1,764	600	2,738	1,584
EL SALVADOR	1,142	1,856	1,956	2,063	1,952	482	269	856	908
EU-SPAIN	4,136	6,057	5,487	7,313	5,101	1,877	1,527	2,023	2,875
FSM	1,035	1,142	1,771	1,131	1,622	1,592	3,695	3,444	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	3,494	2,821	4,001	3,970	2,118	2,646	2,214
KIRIBATI	1,940	3,664	2,018	3,751	4,237	2,937	8,045	7,152	1,397
MARSHALL ISLANDS	3,425	7,715	4,192	4,429	3,453	2,506	2,313	4,555	2,811
NEW ZEALAND	407	545	238	383	258	64	77	177	218
PAPUA NEW GUINEA	6,282	4,332	7,008	5,962	7,594	6,669	8,995	6,818	3,231
PHILIPPINES	4,720	2,166	4,388	3,632	4,219	5,089	3,605	2,354	2,067
REPUBLIC OF KOREA	6,863	7,883	5,303	5,502	5,034	5,190	9,486	7,113	3,676
SOLOMON ISLANDS	349	982	602	697	459	395	933	831	354
CHINESE TAIPEI	6,570	8,330	8,110	8,595	8,367	6,368	5,975	5,519	4,219
TUVALU	171	200	363	260	171	60	141	245	135
USA	7,948	11,437	8,582	12,822	10,177	5,422	7,448	7,005	5,127
VANUATU	712	1,115	830	641	698	304	326	632	487
	55,711	71,139	62,620	71,396	64,327	48,483	59,048	56,314	
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	1	
ECUADOR	0	4, 5
EL SALVADOR	33	4
EU-SPAIN	128	4
FSM	34	
JAPAN	0	
KIRIBATI	391	7
MARSHALL ISLANDS	421	4
NEW ZEALAND	66	4
PAPUA NEW GUINEA	3	
PHILIPPINES	0	6
REPUBLIC OF KOREA	0	
SOLOMON ISLANDS	22	4
CHINESE TAIPEI	0	
TUVALU	40	4
USA	0	
VANUATU	99	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.