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CMM TROPICAL TUNA DATA SUMMARY
as at 11 September 2017

WCPFC-TCC13-2017-IP08
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Paper by SPC-OFP



SPC-OFP

According to data last updated – 11th September 2017

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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	Notified / Estimated EEZ Limit	See NOTE (s)
AUSTRALIA	0	1	1	0	0	0	0	1	1	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	334	365	206	1,250	2, 17
FIJI	12	5	10	26	36	6	6	23	11	29	27	27	32	0	52	43	300	2
FRENCH POLYNESIA	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	4	#	2
INDONESIA	466	432	483	644	750	598	451	285	319	224	498	1,128	2,425	1,383	321	758	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	561	1,500	2,9,10,13
NEW ZEALAND	233	256	172	459	371	218	245	234	135	218	288	268	304	285	280	197	#	2, 9, 15
NIUE	0	0	1	0	0	0	0	0	0	0	1	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	1,146	884	885	925	2,4,6,20
SAMOA	7	11	3	4	3	1	3	7	9	7	39	29	35	14	34	82	150	2
TOKELAU	99	395	27	69	128	33	48	137	217	189	871	726	406	616	1,396	194	1,000	2, 21
TONGA	2	0	0	1	1	0	0	0	0	0	0	0	2	0	2	18	250	2
USA	350	480	237	300	132	191	106	61	127	30	44	205	190	234	97	106	1,828	2, 22
VANUATU	2	2	0	23	1	0	0	14	1	0	4	5	1	0	4	0	200	2
WALLIS AND FUTUNA	5	3	4	0	4	0	0	6	6	1	3	1	0	1	2	2	#	2
PNA EEZs (excl AWs)	24,942	27,261	29,344	30,522	32,356	32,088	31,735	34,418	32,685	44,160	47,372	41,999	43,555	42,277	31,138	36,978		5, 12
PNA AWs only	2,427	2,216	3,567	3,099	4,667	3,921	5,714	6,256	7,018	6,269	8,671	8,822	7,630	6,784	3,829	3,301		5
PNA EEZs + AWs = TOTAL PNA	27,369	29,477	32,911	33,621	37,023	36,009	37,449	40,674	39,703	50,429	56,043	50,821	51,185	49,061	34,967	40,279		5
TOTAL EEZs - excl. PNA AWs	29,224	32,101	33,528	35,377	36,425	35,607	35,444	37,284	34,918	45,916	49,865	45,516	48,443	46,473	35,134	40,032		
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	45,030	48,936	44,030	45,181	43,944	33,929	38,389		
TOTAL EEZs + PNA AWs	31,656	34,321	37,100	38,476	41,096	39,528	41,158	43,547	41,943	52,186	58,539	54,339	56,073	53,258	38,965	43,335	51,445	
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	5,595	8,466	7,235		6,8,11
TOTAL (EEZs + IW + PNA AWs)	39,002	42,534	45,332	48,717	49,854	46,143	49,371	52,091	52,015	53,687	60,066	56,559	62,219	58,853	47,431	50,570	58,680	
TOTAL minus ID/PH	37,310	40,826	43,272	46,453	47,550	43,991	47,223	49,936	50,221	52,801	59,137	55,073	58,957	56,324	46,226	48,927	57,037	
VIETNAM	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 and CMM 2015-01 -- 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-OFP. 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 2008-2016 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 and CMM 2015-01).
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	CMM limits for 2015 and 2016 (Att. D)	Max. Annual days for 2010-2012	See Notes
CHINA	88	125	149	424	505	231	334	251	918	13	7	26	15	9	22	374	26	26	11
ECUADOR	0	0	0	0	0	0	13	5	5	3	3	13	0	1	0	0	**	13	7, 9,
EL SALVADOR	3	28	0	0	0	0	206	203	78	46	33	29	29	48	50	24	**	46	7, 9
EUROPEAN UNION	0	8	13	53	31	78	237	278	249	284	313	422	371	368	244	85	403	422	7
FSM	239	239	176	384	218	86	168	126	336	6	3	14	7	11	463	388			
INDONESIA	500	500	500	500	500	500	500	500	500	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	121	6	
KIRIBATI	41	54	40	36	50	52	22	34	160	97	246	183	184	858	710	759			11
MARSHALL ISLANDS	170	209	441	396	400	154	177	283	173	67	34	2	5	7	837	392			
NEW ZEALAND	23	329	342	206	96	287	200	195	206	67	30	93	14	19	145	95	160		10
PAPUA NEW GUINEA	416	621	633	1,208	1,300	463	849	713	833	83	23	41	16	40	1,125	102	#		
PHILIPPINES	13	56	449	464	320	151	26	73	20	2	0	3	4,096	2,667	2,442	2,646	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	207	227	
SOLOMON ISLANDS	31	37	0	0	17	15	5	0	0	0	0	1	0	0	0	20			
TUVALU	0	0	0	0	0	0	0	0	40	4	5	1	0	1	85	146			
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	96	95		82
USA	969	1,315	858	989	767	527	791	1,546	1,733	398	572	1,238	1,039	1,077	1,743	1,457	1,270		1,238
VANUATU	67	166	186	579	378	401	379	166	64	37	31	7	8	3	0	309			
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	5,358	8,261	7,130			
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			See Notes
ECUADOR	0	0	0	0	0	0	22	83	33	51	39	82	89	67	90	0			7
EL SALVADOR	23	35	3	0	0	0	26	131	24	20	22	4	121	154	46	67			7
EUROPEAN UNION	126	78	91	49	41	119	35	29	14	14	17	11	35	18	70	37			7
TOTAL	149	113	94	49	41	119	83	243	71	85	78	97	245	239	206	104			

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. The 2015 and 2016 effort estimates, based on the annual catch estimates and scientific data provided by China and Kiribati, may not reflect their charter arrangement as presented in this table.

Table 3. Estimated FAD sets undertaken in the tropical purse seine fishery of the WCPFC Convention Area (20°N-20°S), by flag, 2001-2016.

															CMM 2015-01 (Att. A) FAD set limits		
2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	COLUMN A	COLUMN B	CCM
139	160	512	861	923	826	1,199	1,672	688	2,013	1,127	1,405	1,487	747	1,062		738	CHINA
0	0	0	0	0	75	367	139	220	440	442	275	343	143	42		104	ECUADOR
26	1	0	0	0	53	152	163	136	186	211	297	306	171	94		52	EL SALVADOR
32	59	82	47	125	238	411	330	359	488	459	515	431	327	91		149	EUROPEAN UNION
387	489	789	497	282	338	479	737	417	790	820	537	605	620	353	604	528	FSM
?	?	?	?	?	?	?	?	?	?	?	?	?	?	?			INDONESIA
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	2,139	1,867	JAPAN
62	63	97	104	66	61	78	267	243	552	486	667	823	1,092	391	493	439	KIRIBATI
578	876	1,064	934	741	891	464	617	630	1,544	1,386	1,165	1,212	1,050	670		900	MARSHALL ISLANDS
399	439	574	196	488	418	439	387	189	189	159	104	141	47	17		160	NEW ZEALAND
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	1,840		1,972	PAPUA NEW GUINEA
1,034	1,240	1,197	1,131	848	246	536	552	375	401	622	487	393	356	301		403	PHILIPPINES (distant-water)
?	?	?	?	?	?	?	?	?	?	?	?	?	?	?			PHILIPPINES (domestic)
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	2,286	1,996	REPUBLIC OF KOREA
118	100	88	109	252	130	86	173	80	147	191	134	99	107	192		145	SOLOMON ISLANDS
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	1,508		2,109	CHINESE TAIPEI
0	0	0	0	0	0	0	22	40	58	92	78	49	36	59		113	TUVALU
1,772	1,561	2,066	1,317	1,543	1,393	2,757	3,777	2,384	3,389	3,432	3,156	3,491	2,133	2,125		2,522	USA
143	182	655	528	467	626	172	242	169	391	261	260	229	124	71		306	VANUATU
11,852	11,081	18,735	13,797	15,783	14,058	15,367	17,962	10,547	18,265	17,434	15,124	16,062	12,110	11,283		14,503	

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 2014-01 – Paras. 14 and 17, and ATTACHMENT A, provides information on the 2015 FAD set limits applies to FSM, Japan, Kiribati and Korea.
9. 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
10. 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 applies to certain FSM and Kiribati vessels for 2016.
11. The 2016 estimates of FAD sets for Kiribati does not include their chartered vessels.

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	CMM limits for 2015 & 2016	See Notes
AMERICAN SAMOA	75	196	242	227	134	181	218	132	249	487	1,263	1,502	389	318	515	686		(4)
AUSTRALIA	1,307	1,002	1,024	892	791	499	1,008	1,027	726	458	379	482	425	440	719	825		(7)
BELIZE	1,322	812	782	297	425	254	158	89	43	89	102	132	217	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	8,224	(10), (11)
COOK ISLANDS	1	56	204	394	220	166	238	292	217	319	925	1,624	208	184	151	177		(4)
EU-PORTUGAL	0	0	0	0	0	0	0	0	0	0	3	17	106	71	17	2		
EU-SPAIN	0	0	0	42	17	62	62	77	46	15	10	23	65	53	53	53		(7)
FSM	651	759	656	542	182	172	1,395	970	1,395	899	1,500	1,700	1,270	1,388	1,473	1,869		(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		(4)
FRENCH POLYNESIA	745	649	439	502	606	498	478	490	587	436	607	654	787	741	800	567		(4)
GUAM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	831	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	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	18,265	
KIRIBATI	0	0	1	0	0	0	0	44	0	3	155	800	582	268	556	603		(4)
MARSHALL ISLANDS	0	0	0	1	0	0	3	375	381	257	259	335	80	0	0	700		(4)
NAURU	6	3	10	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		(4)
NEW ZEALAND	481	201	204	177	175	177	213	133	253	132	174	154	109	122	122	177		(7)
NIUE	0	0	0	0	10	22	35	51	10	4	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		(4)
PALAU	21	1	1	7	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	43		(4)
PHILIPPINES	59	59	59	59	59	59	59	59	59	59	777	248	167	63	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	13,942	(11), (13)
SAMOA	185	137	110	104	64	128	101	106	117	108	71	54	36	48	48	62		(4)
SENEGAL	0	0	0	0	0	3	2	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	384		(4), (11)
TONGA	191	215	94	40	125	117	129	81	38	24	18	10	7	22	25	36		(4)
TUVALU	0	0	0	0	0	0	0	0	0	0	105	1,408	120	76	187	73		(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	10,481	(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	3,426	3,761	3,504	(15)
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	2,773		(4)
WALLIS AND FUTUNA	0	0	0	0	0	0	0	0	0	0	6	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	78,449	61,660	68,314	67,699	57,403	60,305	
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		(9)

Notes:

1. Source: WCPFC Annual catch estimates as at 11th September 2017.
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 column labelled "CMM limits for 2015 and 2016" 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 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

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	Av. 2001- 2004	See Notes
AMERICAN SAMOA	188	485	497	888	526	513	640	333	398	473	699	620	422	454	428	370	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	1,150	1,139	1,551	2,082	1,734	3,097	(6)
BELIZE	957	720	943	208	298	106	273	129	121	28	13	30	21	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	2,792	(9), (1)
COOK ISLANDS	1	42	178	506	413	262	290	247	197	192	394	693	346	504	339	306	182	(4)
EU-PORTUGAL	0	0	0	0	0	0	0	0	0	0	0	0	2	22	4	4	0	(13)
EU-SPAIN	0	0	0	23	1	127	127	10	7	3	0	2	2	11	10	28	6	(13)
FSM	338	164	276	185	99	270	548	328	583	406	750	750	850	971	963	1,771	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	2,689	(4)
FRENCH POLYNESIA	967	507	621	1,066	793	690	527	447	716	418	491	758	615	783	1,074	1,017	790	(4)
GUAM	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	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	16,480	(4)
KIRIBATI	2	0	2	0	0	0	0	7	0	4	140	300	175	108	405	610	1	(4)
MARSHALL ISLANDS	0	0	0	3	0	0	2	91	120	117	99	113	47	0	0	578	1	(4)
NAURU	5	2	6	1	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	632	(4)
NEW ZEALAND	131	27	39	36	36	3	25	11	3	6	3	1	1	2	2	55	58	(4)
NIUE	0	0	0	0	34	42	43	40	20	8	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	(4)
PALAU	41	3	19	28	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	151	1,904	(4)
PHILIPPINES	484	484	484	484	484	484	484	484	484	484	146	61	27	153	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	12,864	(10)
SAMOA	470	369	293	444	199	264	305	317	412	386	395	234	330	231	252	244	394	(4)
SENEGAL	0	0	0	0	6	3	4	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	2,130	315	(4), (
TONGA	259	263	263	163	219	227	341	291	109	47	171	140	126	195	297	370	237	(4)
TUVALU	0	0	0	0	0	0	0	0	0	0	286	453	114	41	166	107	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	22,361	(10)
USA	1,016	572	809	694	698	937	833	836	429	462	738	576	546	567	670	1,098	773	(4)
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	1,413	974	(4)
WALLIS AND FUTUNA	0	0	0	0	0	0	0	0	0	0	4	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	67,894	52,149	72,607	87,097	65,345	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		(8)

Notes:

1. Source: WCFPC Annual catch estimates as at 11th September 2017.
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	Average Annual tuna catch (MT)	Total Effort		Area Note	Availability of EFFORT data	See NOTE
			CMM 2014 limit	2016			
GILLNET	VIETNAM	13,520			Within EEZ	NO	
HANDLINE (LARGE-FISH)	INDONESIA	2,521	43,638	40,402	Within EEZ	NO	7, 8, 9
	PHILIPPINES	2,672	48,601	34,421	Within EEZ	NO	7, 9
HOOK-AND-LINE (SMALL-FISH)	PHILIPPINES	14,000	133,637	42,702	Fishery mostly within archipelagic waters	NO	7, 9
POLE-AND-LINE	INDONESIA	33,382	5,279	3,094	Fishery mostly within archipelagic waters	NO	7, 8, 9
	JAPAN	114,573	21,021	13,712		YES	3, 6
SEINE	CHINESE TAIPEI	2,473			Within EEZ	NO	5
RINGNET	PHILIPPINES	3,654	1,425	2,988	Fishery mostly within archipelagic waters	NO	7, 9
TROLL	JAPAN	17,179			Primarily Territorial Seas	NO	6
UNCLASSIFIED / UNSPECIFIED	INDONESIA	24,336			Fishery mostly within archipelagic waters	NO	7, 8
	KIRIBATI	2,368			Within EEZ	NO	

Notes:

1. Source: Raised logsheet data. 2016 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	21,495	74%	7,270	25%	261	1%	29,025	692	17,245	70%	5,348	22%	1,941	8%	24,534	2,788	38,851	12,652	2,212	53,714
CN	2011	12	10	4,019	1,396	11,349	74%	3,857	25%	111	1%	15,318	2,023	46,305	74%	11,711	19%	4,206	7%	62,222	3,419	57,655	15,568	4,317	77,540
CN	2012	13	12	2,205	706	9,920	71%	3,848	28%	135	1%	13,902	1,143	26,311	75%	6,601	19%	2,334	7%	35,246	1,849	36,230	10,449	2,469	49,148
CN	2013	14	12	3,623	2,350	26,797	87%	3,903	13%	271	1%	30,971	1,409	37,088	73%	10,045	20%	3,399	7%	50,531	3,760	64,117	14,024	3,687	81,828
CN	2014	19	18	3,153	1,443	17,640	84%	3,282	16%	192	1%	21,114	1,474	45,534	78%	9,519	16%	3,445	6%	58,499	2,917	63,174	12,801	3,637	79,613
CN	2015	20	16	2,011	913	12,037	74%	3,887	24%	265	2%	16,189	749	21,134	78%	4,426	16%	1,488	6%	27,047	1,662	33,171	8,313	1,753	43,236
CN	2016	16	16	3,303	1,861	27,184	73%	9,440	25%	470	1%	37,095	1,062	34,945	80%	6,337	14%	2,625	6%	43,906	2,923	62,129	15,777	3,095	81,001
EC	2010	14	6	319	21	129	74%	43	25%	3	2%	175	233	6,464	58%	2,555	23%	2,126	19%	11,145	254	6,593	2,598	2,129	11,320
EC	2011	8	7	556	41	212	25%	637	75%	2	0%	851	447	18,601	66%	4,541	16%	5,190	18%	28,332	488	18,813	5,178	5,192	29,183
EC	2012	8	7	605	17	363	63%	210	37%	2	0%	575	444	15,462	69%	3,291	15%	3,816	17%	22,570	461	15,825	3,502	3,819	23,145
EC	2013	7	7	466	70	2,105	92%	146	6%	29	1%	2,280	284	13,398	70%	2,582	14%	3,183	17%	19,162	355	15,502	2,728	3,211	21,442
EC	2014	7	7	478	57	1,143	88%	148	11%	6	1%	1,297	360	15,735	77%	1,983	10%	2,824	14%	20,542	417	16,878	2,131	2,830	21,839
EC	2015	7	4	162	1	0	0	0	0	0	0	150	8,929	76%	1,000	9%	1,830	16%	11,759	151	8,929	1,000	1,830	11,759	
EC	2016	2	1	35	0	0	0	0	0	0	0	42	2,647	67%	501	13%	777	20%	3,925	42	2,647	501	777	3,925	
ES	2010	4	4	720	26	707	86%	108	13%	5	1%	820	364	19,874	69%	4,709	16%	4,065	14%	28,648	390	20,581	4,817	4,070	29,468
ES	2011	4	4	753	30	418	31%	909	68%	7	1%	1,334	488	26,802	70%	5,335	14%	5,980	16%	38,117	518	27,220	6,244	5,987	39,451
ES	2012	4	4	787	57	1,852	67%	887	32%	28	1%	2,767	461	19,713	67%	4,666	16%	5,024	17%	29,404	517	21,565	5,553	5,052	32,171
ES	2013	4	4	837	56	2,740	91%	279	9%	7	0%	3,026	515	28,440	66%	7,362	17%	7,338	17%	43,141	571	31,180	7,641	7,346	46,167
ES	2014	4	4	753	89	2,971	71%	1,234	29%	8	0%	4,213	431	27,700	76%	3,628	10%	4,919	14%	36,247	520	30,671	4,862	4,927	40,460
ES	2015	4	4	534	28	1,287	94%	80	6%	0	0%	1,368	326	26,789	84%	3,140	10%	1,911	6%	31,840	355	28,077	3,220	1,912	33,208
ES	2016	2	2	124	1	0	0	0	0	0	0	0	90	6,266	75%	537	7%	1,513	18%	8,317	91	6,266	537	1,513	8,317
FM	2010	7	8	1,305	612	8,593	81%	1,960	18%	92	1%	10,645	419	10,323	73%	2,713	19%	1,042	7%	14,078	1,031	18,916	4,672	1,134	24,723
FM	2011	7	7	1,644	484	5,798	76%	1,829	24%	51	1%	7,677	792	13,364	71%	4,360	23%	1,091	6%	18,816	1,278	19,169	6,192	1,143	26,505
FM	2012	9	9	1,573	464	6,333	75%	2,034	24%	65	1%	8,432	826	21,756	79%	4,105	15%	1,673	6%	27,535	1,301	28,313	6,171	1,749	36,233
FM	2013	10	10	1,384	450	8,996	86%	1,324	13%	100	1%	10,420	539	13,142	75%	3,126	18%	1,196	7%	17,464	989	22,138	4,450	1,295	27,884
FM	2014	10	10	1,414	611	13,061	85%	2,133	14%	234	2%	15,429	614	17,120	76%	4,117	18%	1,408	6%	22,646	1,225	30,182	6,250	1,643	38,075
FM	2015	12	13	1,883	1,212	26,144	83%	4,961	16%	347	1%	31,452	627	19,485	80%	3,536	15%	1,270	5%	24,290	1,839	45,629	8,497	1,616	55,743
FM	2016	16	18	2,751	1,065	21,294	79%	5,274	20%	445	2%	27,014	1,137	34,279	77%	7,097	16%	3,299	7%	44,675	2,202	55,574	12,371	3,745	71,689
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	30	5,006	4,176	81,762	75%	26,033	24%	1,628	2%	109,422	888	24,830	70%	8,053	23%	2,777	8%	35,660	5,142	108,396	34,874	4,626	147,896
KI	2010	5	4	693	465	7,467	80%	1,855	20%	74	1%	9,396	245	11,297	72%	2,460	16%	1,933	12%	15,691	741	19,220	4,452	2,074	25,746
KI	2011	7	7	1,429	785	9,382	71%	3,778	29%	73	1%	13,232	554	24,991	75%	4,570	14%	3,629	11%	33,190	1,347	34,432	8,366	3,716	46,514
KI	2012	9	9	1,845	1,592	29,850	78%	7,976	21%	303	1%	38,130	491	19,519	81%	2,994	12%	1,563	7%	24,076	2,091	49,554	11,005	1,873	62,432
KI	2013	12	12	2,007	1,443	26,990	81%	5,984	18%	285	1%	33,259	669	28,850	74%	6,650	17%	3,482	9%	38,982	2,113	55,840	12,634	3,767	72,241
KI	2014	14	15	2,820	2,188	45,409	77%	13,228	23%	256	0%	58,893	831	40,987	82%	5,428	11%	3,866	8%	50,281	3,019	86,396	18,656	4,122	109,174
KI	2015	21	21	2,938	2,547	62,116	87%	8,955	13%	399	1%	71,470	1,093	56,456	87%	6,192	10%	2,579	4%	65,227	3,640	118,572	15,147	2,978	136,697
KI	2016	27	21	3,752	1,943	44,117	83%	8,620	16%	546	1%	53,282	1,614	70,936	81%	10,122	12%	6,204	7%	87,262	3,558	115,053	18,741	6,750	140,544

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							
KR	2010	29	28	7,179	6,300	145,985	71%	56,800	28%	2,238	1%	205,022	1,116	56,629	78%	10,977	15%	4,605	6%	72,211	7,425	202,669	67,796	6,848	277,313
KR	2011	28	28	6,553	4,493	79,825	73%	28,941	27%	646	1%	109,412	2,128	73,769	75%	17,014	17%	7,313	8%	98,096	6,628	153,740	45,997	7,966	207,703
KR	2012	28	28	5,836	6,099	143,092	77%	41,294	22%	1,479	1%	185,865	1,433	62,635	82%	9,868	13%	3,823	5%	76,326	7,533	205,727	51,162	5,302	262,191
KR	2013	27	28	5,983	6,068	132,179	81%	29,169	18%	1,845	1%	163,192	1,171	48,440	78%	10,295	17%	3,703	6%	62,439	7,239	180,619	39,464	5,548	225,631
KR	2014	28	29	5,437	5,820	163,539	82%	35,611	18%	1,071	1%	200,221	1,097	58,250	83%	7,854	11%	3,722	5%	69,827	6,917	221,789	43,465	4,794	270,048
KR	2015	25	26	4,763	4,615	133,641	84%	24,510	15%	1,233	1%	159,384	1,540	96,655	87%	10,321	9%	3,918	4%	110,894	6,155	230,296	34,831	5,151	270,278
KR	2016	25	25	4,702	4,211	129,627	77%	37,157	22%	1,828	1%	168,612	1,588	89,684	82%	13,143	12%	7,015	6%	109,843	5,799	219,312	50,300	8,843	278,455
MH	2010	10	10	1,670	1,228	19,302	78%	5,340	21%	261	1%	24,903	636	24,978	74%	5,471	16%	3,269	10%	33,718	1,881	44,673	10,939	3,550	59,162
MH	2011	10	10	2,521	547	7,695	81%	1,790	19%	75	1%	9,561	1,550	60,088	75%	12,811	16%	7,723	10%	80,622	2,097	67,783	14,601	7,799	90,183
MH	2012	10	10	1,989	748	11,213	69%	5,051	31%	111	1%	16,375	1,394	45,522	80%	7,567	13%	4,130	7%	57,220	2,142	56,735	12,618	4,241	73,595
MH	2013	10	10	2,132	1,075	17,829	89%	2,147	11%	101	1%	20,077	1,167	42,828	75%	10,307	18%	4,360	8%	57,494	2,243	60,698	12,470	4,466	77,634
MH	2014	12	11	2,131	1,127	19,085	88%	2,392	11%	118	1%	21,596	1,219	42,915	79%	8,026	15%	3,360	6%	54,300	2,346	62,000	10,418	3,478	75,896
MH	2015	12	12	2,203	1,839	35,384	94%	2,129	6%	84	0%	37,598	1,063	41,234	84%	5,616	11%	2,421	5%	49,271	2,903	76,619	7,745	2,505	86,869
MH	2016	10	10	1,975	1,305	23,635	84%	4,195	15%	197	1%	28,027	671	26,830	81%	4,054	12%	2,062	6%	32,946	1,976	50,465	8,249	2,259	60,973
NZ	2010	4	4	564	371	8,058	97%	222	3%	8	0%	8,287	192	7,836	82%	1,338	14%	420	4%	9,594	564	15,894	1,560	428	17,882
NZ	2011	4	4	461	140	2,713	85%	466	15%	5	0%	3,185	193	5,858	78%	1,152	15%	547	7%	7,557	333	8,571	1,618	553	10,742
NZ	2012	4	4	471	288	5,366	86%	820	13%	31	1%	6,217	162	3,729	80%	709	15%	240	5%	4,678	450	9,095	1,529	271	10,895
NZ	2013	4	4	306	173	4,943	94%	314	6%	9	0%	5,265	120	4,343	80%	735	14%	375	7%	5,453	293	9,286	1,049	383	10,719
NZ	2014	5	5	301	173	3,707	88%	507	12%	18	0%	4,233	157	4,684	86%	522	10%	246	5%	5,453	330	8,392	1,029	264	9,685
NZ	2015	2	2	263	276	5,139	93%	306	6%	65	1%	5,510	51	2,372	87%	251	9%	90	3%	2,713	327	7,512	556	154	8,222
NZ	2016	2	2	135	150	2,770	100%	10	0%	5	0%	2,785	21	1,383	84%	158	10%	100	6%	1,641	171	4,153	168	105	4,426
PG	2010	45	48	8,914	5,461	90,306	73%	31,478	26%	1,309	1%	123,093	2,659	56,826	69%	20,066	25%	5,048	6%	81,940	8,125	147,251	51,570	6,364	205,184
PG	2011	49	50	9,202	4,733	65,220	77%	18,844	22%	432	1%	84,496	3,289	62,117	72%	19,535	23%	4,149	5%	85,801	8,035	127,616	38,465	4,601	170,682
PG	2012	51	50	9,817	6,335	95,765	70%	40,493	29%	1,510	1%	137,768	3,210	69,409	71%	22,904	24%	5,355	6%	97,668	9,589	165,678	63,575	6,910	236,163
PG	2013	51	50	8,961	6,040	88,986	72%	32,187	26%	1,678	1%	122,851	2,454	48,809	67%	19,207	27%	4,373	6%	72,389	8,509	137,981	51,493	6,072	195,547
PG	2014	55	51	9,640	6,326	105,882	74%	34,776	24%	1,825	1%	142,483	2,395	68,131	74%	17,819	19%	5,827	6%	91,777	8,744	174,394	52,790	7,697	234,881
PG	2015	51	54	6,689	5,660	108,008	75%	34,836	24%	2,026	1%	144,870	1,586	51,725	74%	13,412	19%	4,476	6%	69,613	7,251	159,751	48,256	6,504	214,511
PG	2016	51	51	8,503	7,193	123,743	66%	61,420	33%	3,073	2%	188,235	2,101	73,872	75%	18,802	19%	5,675	6%	98,349	9,325	198,567	80,671	8,847	288,086
PH	2010	25	24	4,483	2,341	30,649	63%	17,068	35%	712	2%	48,428	775	16,416	64%	7,209	28%	1,863	7%	25,487	3,223	48,098	24,836	2,662	75,596
PH	2011	25	23	5,694	3,201	41,590	72%	16,073	28%	292	1%	57,955	1,275	21,639	68%	9,201	29%	1,016	3%	31,855	4,574	64,067	25,606	1,344	91,016
PH	2012	21	28	6,276	4,330	51,536	63%	29,413	36%	1,350	2%	82,299	1,650	29,810	67%	12,815	29%	2,090	5%	44,715	6,031	81,969	42,379	3,470	127,818
PH	2013	27	27	4,808	3,175	35,419	55%	27,391	43%	1,218	2%	64,027	1,363	22,383	58%	13,746	36%	2,213	6%	38,343	4,584	58,450	41,553	3,485	103,488
PH	2014	27	29	4,940	3,771	58,681	64%	31,181	34%	1,501	2%	91,363	1,112	19,259	62%	9,694	31%	1,925	6%	30,877	4,904	78,148	41,007	3,453	122,607
PH	2015	23	21	2,888	1,981	24,981	56%	18,593	42%	1,018	2%	44,592	834	15,761	53%	11,436	38%	2,758	9%	29,955	2,824	41,150	30,244	3,866	75,260
PH	2016	17	17	2,018	1,573	26,306	58%	18,392	40%	910	2%	45,608	538	15,898	67%	6,359	27%	1,647	7%	23,904	2,165	43,291	25,343	2,762	71,396
SB	2010	5	5	485	95	2,036	59%	1,408	41%	36	1%	3,480	533	6,634	68%	2,777	29%	327	3%	9,737	448	8,670	4,185	362	13,217
SB	2011	5	5	1,006	119	2,265	80%	560	20%	11	0%	2,836	742	14,395	63%	7,341	32%	990	4%	22,726	861	16,660	7,901	1,001	25,562
SB	2012	5	5	1,094	98	1,553	74%	543	26%	0	0%	2,096	833	15,450	63%	8,412	35%	542	2%	24,404	931	17,003	8,954	542	26,500
SB	2013	5	5	1,093	213	3,029	67%	1,437	32%	45	1%	4,510	664	13,071	65%	6,500	32%	688	3%	20,259	876	16,099	7,936	733	24,769
SB	2014	5	5	1,212	269	3,845	49%	4,011	51%	13	0%	7,869	787	12,123	54%	9,986	44%	446	2%	22,554	1,056	15,969	13,997	459	30,425
SB	2015	5	6	1,343	389	5,466	58%	3,838	41%	81	1%	9,384	787	10,390	54%	8,645	45%	374	2%	19,409	1,176	15,855	12,482	455	28,792
SB	2016	8	8	1,714	804	11,552	61%	6,996	37%	257	1%	18,806	837	14,544	58%	9,790	39%	552	2%	24,886	1,651	26,214	16,941	825	43,980

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
SV	2010	2	2	210	3	13	46%	0	0%	15	54%	28	136	4,805	65%	1,394	19%	1,145	16%	7,344	139	4,818	1,394	1,160	7,372
SV	2011	2	2	268	3	18	21%	67	79%	0	0%	85	185	8,614	71%	1,664	14%	1,863	15%	12,141	188	8,632	1,731	1,863	12,226
SV	2012	2	2	300	4	15	100%	0	0%	0	0%	15	213	9,080	67%	2,329	17%	2,224	16%	13,632	217	9,094	2,329	2,224	13,647
SV	2013	4	4	404	13	341	83%	68	17%	2	1%	412	296	11,197	67%	2,974	18%	2,634	16%	16,805	309	11,538	3,042	2,637	17,217
SV	2014	4	4	485	92	1,975	98%	42	2%	1	0%	2,019	303	11,437	74%	2,088	14%	1,937	13%	15,461	394	13,412	2,130	1,937	17,480
SV	2015	2	2	180	7	0		0		0		0	177	12,256	80%	2,011	13%	1,033	7%	15,300	184	12,256	2,011	1,033	15,300
SV	2016	3	2	112	6	676	100%	1	0%	0	0%	677	95	5,319	80%	624	9%	683	10%	6,626	101	5,995	625	683	7,303
TV	2010	1	1	271	319	6,864	76%	2,077	23%	56	1%	8,997	40	1,128	72%	315	20%	115	7%	1,557	359	7,992	2,392	170	10,554
TV	2011	1	1	311	283	4,353	81%	974	18%	24	0%	5,351	58	1,604	78%	286	14%	176	9%	2,066	341	5,957	1,260	200	7,417
TV	2012	1	1	273	303	3,285	60%	2,146	39%	41	1%	5,472	93	4,548	82%	713	13%	321	6%	5,582	395	7,834	2,858	362	11,054
TV	2013	1	1	273	353	6,847	89%	814	11%	60	1%	7,721	79	2,842	77%	651	18%	202	6%	3,695	432	9,689	1,465	262	11,416
TV	2014	1	1	159	146	3,218	88%	430	12%	27	1%	3,675	49	1,834	81%	287	13%	147	7%	2,268	195	5,052	717	174	5,943
TV	2015	1	1	186	174	3,589	97%	98	3%	4	0%	3,690	36	1,530	86%	183	10%	67	4%	1,780	210	5,119	281	71	5,470
TV	2016	1	1	234	93	2,449	97%	69	3%	2	0%	2,520	59	3,011	84%	454	13%	125	4%	3,590	152	5,460	523	128	6,110
TW	2010	34	30	7,865	6,413	94,441	77%	27,057	22%	1,115	1%	122,613	1,709	56,057	74%	14,750	19%	5,430	7%	76,238	8,122	150,498	41,807	6,545	198,851
TW	2011	34	31	8,841	4,798	54,881	79%	14,195	20%	404	1%	69,480	2,959	79,497	75%	19,003	18%	7,954	8%	106,454	7,757	134,379	33,198	8,358	175,934
TW	2012	34	33	7,051	4,617	61,556	71%	23,944	28%	833	1%	86,332	2,903	89,680	78%	17,444	15%	7,197	6%	114,321	7,520	151,235	41,388	8,029	200,653
TW	2013	34	34	7,530	6,146	87,072	85%	14,221	14%	1,059	1%	102,352	2,580	81,536	74%	21,010	19%	7,582	7%	110,128	8,725	168,608	35,232	8,641	212,480
TW	2014	34	35	6,735	5,784	103,621	87%	14,127	12%	1,160	1%	118,908	2,611	93,148	79%	17,878	15%	7,223	6%	118,249	8,396	196,769	32,005	8,383	237,157
TW	2015	34	34	5,080	4,661	80,218	76%	24,055	23%	1,432	1%	105,704	1,739	70,666	80%	12,913	15%	4,915	6%	88,494	6,403	150,923	36,978	6,349	194,250
TW	2016	34	31	5,275	4,762	82,231	73%	29,258	26%	1,535	1%	113,025	1,519	57,381	78%	12,074	16%	4,561	6%	74,016	6,283	139,612	41,332	6,096	187,040
US	2010	37	37	8,220	6,331	110,501	83%	21,508	16%	799	1%	132,809	2,397	87,174	78%	18,046	16%	7,116	6%	112,336	8,738	197,896	39,692	7,936	245,524
US	2011	37	36	8,048	3,008	46,838	78%	12,831	21%	274	1%	59,943	3,401	110,615	77%	21,420	15%	11,261	8%	143,297	6,409	157,453	34,251	11,536	203,240
US	2012	39	39	8,784	5,620	99,599	81%	23,317	19%	805	1%	123,720	3,464	109,786	81%	18,623	14%	7,572	6%	135,981	9,086	209,433	41,946	8,380	259,759
US	2013	40	41	8,388	5,022	95,357	91%	9,222	9%	445	0%	105,024	3,175	111,702	75%	25,195	17%	12,234	8%	149,131	8,201	207,150	34,426	12,695	254,271
US	2014	40	40	8,566	5,920	113,009	86%	18,638	14%	532	0%	132,179	3,510	135,340	83%	19,171	12%	9,046	6%	163,558	9,432	248,349	37,809	9,579	295,737
US	2015	39	39	7,345	6,207	117,080	89%	14,531	11%	736	1%	132,347	2,161	101,982	86%	11,185	10%	4,992	4%	118,158	8,368	219,061	25,716	5,728	250,505
US	2016	37	37	5,580	3,333	76,257	88%	9,775	11%	484	1%	86,515	2,177	93,442	82%	14,813	13%	6,366	6%	114,621	5,511	169,709	24,592	6,851	201,152
VU	2010	5	5	872	469	10,697	81%	2,491	19%	89	1%	13,277	198	8,363	80%	1,462	14%	615	6%	10,440	668	19,062	3,954	704	23,720
VU	2011	6	4	1,142	287	5,333	80%	1,325	20%	37	1%	6,695	391	12,750	76%	2,846	17%	1,091	7%	16,688	678	18,083	4,171	1,128	23,382
VU	2012	6	3	775	472	9,644	65%	5,052	34%	131	1%	14,827	268	9,981	82%	1,437	12%	757	6%	12,175	740	19,625	6,489	888	27,002
VU	2013	6	4	974	607	11,701	87%	1,705	13%	85	1%	13,490	263	9,929	78%	2,019	16%	764	6%	12,712	870	21,629	3,724	849	26,202
VU	2014	3	3	685	362	8,839	89%	998	10%	69	1%	9,906	230	8,649	80%	1,567	14%	639	6%	10,855	592	17,488	2,566	708	20,761
VU	2015	3	3	293	104	1,623	96%	65	4%	3	0%	1,692	126	5,622	85%	730	11%	300	5%	6,653	229	7,245	795	304	8,344
VU	2016	3	3	313	76	2,519	96%	94	4%	11	0%	2,624	71	5,046	88%	353	6%	321	6%	5,720	147	7,565	447	332	8,344

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	52,249	38,183	689,044	76%	211,506	23%	8,296	1%	908,843	12,997	420,904	74%	106,737	19%	43,391	8%	571,031	51,461	1,114,170	320,495	52,047	1,486,711
2011	279	267	58,971	30,304	430,220	76%	132,928	23%	3,319	1%	566,468	21,795	623,043	74%	149,092	18%	67,091	8%	839,227	52,257	1,055,111	282,605	70,498	1,408,214
2012	285	281	55,129	36,617	632,199	75%	207,128	24%	8,447	1%	847,772	20,607	613,990	77%	132,632	17%	52,331	7%	798,956	57,368	1,247,977	340,286	60,903	1,649,167
2013	297	287	54,669	38,013	652,720	81%	147,476	18%	8,913	1%	809,105	17,786	561,578	73%	149,331	19%	60,633	8%	771,541	55,904	1,216,037	297,750	69,744	1,583,531
2014	308	300	53,807	38,454	752,078	79%	190,852	20%	9,432	1%	952,366	18,206	640,514	78%	126,968	15%	53,907	7%	821,390	56,745	1,394,294	318,570	63,669	1,776,532
2015	301	291	42,959	34,000	701,511	80%	170,324	19%	10,394	1%	882,228	13,709	563,095	80%	101,559	14%	36,880	5%	701,533	47,851	1,268,275	273,604	47,672	1,589,551
2016	291	275	45,534	32,552	656,122	74%	216,734	25%	11,391	1%	884,247	14,510	560,313	78%	113,271	16%	46,302	6%	719,887	47,238	1,220,408	331,993	58,238	1,610,639

Notes:

- 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.
- Estimates exclude domestic purse seine catch/effort in Philippines, Indonesia and Vietnam.
- 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.
- 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.
- 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).
- 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.
- Includes Catch and Effort in Archipelagic Waters.
- 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	VU	- Vanuatu
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		

Table 8. Longline effort (100s of hooks) in the tropical WCPFC LONGLINE fishery (20°N-10°S), by fleet, 2010-2016.

FLEET	LONGLINE EFFORT (100s of Hooks)						
	2010	2011	2012	2013	2014	2015	2016
CK	13,422	16,809	32,818	16,880	10,880	11,761	18,135
CN	558,006	741,473	838,710	653,046	554,203	856,023	643,894
FJ	27,971	94,017	172,330	136,376	128,960	83,827	91,876
FM	76,704	94,564	110,591	85,598	74,842	149,576	193,030
JP	583,819	535,274	501,482	440,435	382,120	332,226	264,128
KI	0	19,626	45,193	27,577	23,868	36,636	66,353
KR	728,899	803,678	771,103	626,874	603,157	507,314	586,401
MH	16,828	16,763	20,679	6,286	0	585	63,309
PF	0	242	147	246	437	18	1,155
PG	24,589	51,692	40,188	14,849	19,232	7,897	2,516
SB	66,324	12,757	5,497	2,793	457,456	582,324	5,228
TV	3,436	26,925	69,189	16,219	16,809	18,844	12,927
TW	1,158,885	1,586,000	1,710,738	1,238,811	1,031,881	1,263,944	1,291,682
US	127,121	135,232	152,740	128,813	147,964	180,650	240,492
VU	76,507	89,530	127,777	186,070	130,340	286,797	198,025
	3,462,511	4,224,583	4,599,184	3,580,872	3,582,149	4,318,420	3,679,151

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
SB	- Solomon Is.
TV	- Tuvalu
TW	- Chinese Taipei
US	- USA
VU	- Vanuatu

Table 9. Annual purse seine bigeye tuna catches, by fleet, 2010-2016.

CCM	2010	2011	2012	2013	2014	2015	2016	55% of average 2010-2012 BET catch
AUSTRALIA	0	0	0	0	0	0	0	0
CHINA	2,209	4,316	2,480	3,685	2,712	1,752	3,084	1,651
CHINESE TAIPEI	6,536	8,351	8,035	8,643	8,383	6,348	6,108	4,202
ECUADOR	1,590	3,215	3,803	3,219	2,240	1,771	777	1,578
EL SALVADOR	1,162	1,866	1,939	2,055	1,954	489	281	911
EU-SPAIN	4,113	6,066	5,463	7,266	5,137	1,922	1,274	2,868
FSM	1,029	1,141	1,745	1,139	1,638	1,616	3,841	718
INDONESIA	2,038	1,746	1,940	4,507	2,054	2,049	3,178	1,049
JAPAN	4,152	4,432	5,870	5,219	6,516	5,852	4,681	2,650
KIRIBATI	2,077	3,725	2,028	3,774	4,172	2,978	6,466	1,436
MARSHALL ISLANDS	3,410	7,799	4,161	4,458	3,478	2,504	2,223	2,818
NEW ZEALAND	406	552	234	382	264	54	58	219
PAPUA NEW GUINEA	6,342	4,356	6,933	5,987	7,679	6,503	8,818	3,232
PHILIPPINES	4,744	2,186	4,333	3,633	4,243	4,899	3,441	2,065
REPUBLIC OF KOREA	6,846	7,961	5,296	5,533	4,841	5,110	8,843	3,686
SOLOMON ISLANDS	354	981	597	715	467	457	797	354
TUVALU	170	200	362	261	174	60	95	134
USA	7,930	11,533	8,553	12,779	9,156	5,745	6,923	5,136
VANUATU	704	1,129	822	650	699	304	335	487
VIETNAM	325	688	965	805	1,192	1,394	2,081	363
	56,137	72,243	65,559	74,710	66,999	51,807	63,304	

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.