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**CATCH AND EFFORT TABLES ON TROPICAL TUNA CMMS**

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WCPFC14-2017-IP05\_rev1<sup>1</sup>  
20 November 2017

**Prepared by SPC-OFP**

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<sup>1</sup> Updates WCPFC-TCC13-2017-IP08 dated 15 September 2017



**SPC-OFP**

**According to data last updated – 15<sup>th</sup> November 2017**

**Tables last updated on 15<sup>th</sup> November 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	23	14	24	9	0	2	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	354	354	207	1,250	2, 17
FIJI	12	5	10	26	36	6	6	23	11	29	27	27	32	0	50	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	1,372	321	748	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	1,137	884	874	925	2,4,6,20
SAMOA	7	11	3	4	3	1	3	7	9	7	39	29	35	15	32	82	150	2
TOKELAU	99	395	27	69	128	33	48	137	217	189	871	726	406	645	1,333	195	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	247	96	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	44,158	47,367	41,997	43,555	42,654	30,955	35,273		5, 12
PNA AWs only	2,427	2,216	3,567	3,099	4,667	3,921	5,714	6,256	7,018	6,267	8,671	8,822	7,630	6,785	3,829	3,668		5
PNA EEZs + AWs = TOTAL PNA	27,369	29,477	32,911	33,621	37,023	36,009	37,449	40,674	39,703	50,425	56,038	50,819	51,185	49,439	34,784	38,941		5
TOTAL EEZs - excl. PNA AWs	29,224	32,101	33,528	35,377	36,425	35,607	35,444	37,284	34,918	45,914	49,860	45,514	48,443	46,893	34,872	38,308		
TOTAL EEZs - excl. PNA AWs and ID/PH	28,032	30,893	31,968	33,613	34,621	33,955	33,796	35,629	33,624	45,028	48,931	44,028	45,181	44,384	33,667	36,686		
TOTAL EEZs + PNA AWs	31,679	34,334	37,123	38,485	41,096	39,530	41,158	43,547	41,943	52,182	58,534	54,337	56,073	53,679	38,703	41,978	50,088	
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	5,659	8,380	6,866		6,8,11
TOTAL (EEZs + IW + PNA AWs)	39,025	42,547	45,355	48,726	49,854	46,145	49,371	52,091	52,015	53,683	60,061	56,557	62,219	59,338	47,083	48,844	56,954	
TOTAL minus ID/PH	37,333	40,839	43,295	46,462	47,550	43,993	47,223	49,936	50,221	52,797	59,132	55,071	58,957	56,829	45,878	47,222	55,332	
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](http://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	23	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	87	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	708	881			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	104	#		
PHILIPPINES	13	56	449	464	320	151	26	73	20	2	0	3	4,096	2,667	2,442	2,645	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	0			
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	94	95	82	
USA	969	1,315	858	989	767	527	791	1,546	1,733	398	572	1,238	1,039	1,141	1,658	1,457	1,270	1,238	
VANUATU	67	166	186	579	378	401	379	166	64	37	31	7	8	3	0	162			
<b>TOTAL</b>	<b>7,200</b>	<b>8,101</b>	<b>8,137</b>	<b>10,194</b>	<b>8,717</b>	<b>6,496</b>	<b>8,125</b>	<b>8,277</b>	<b>10,001</b>	<b>1,416</b>	<b>1,449</b>	<b>2,122</b>	<b>5,900</b>	<b>5,422</b>	<b>8,174</b>	<b>6,760</b>			
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	38			7
<b>TOTAL</b>	<b>149</b>	<b>113</b>	<b>94</b>	<b>49</b>	<b>41</b>	<b>119</b>	<b>83</b>	<b>243</b>	<b>71</b>	<b>85</b>	<b>78</b>	<b>97</b>	<b>245</b>	<b>239</b>	<b>206</b>	<b>105</b>			

**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 and 2016 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, 2001-2016.**

																CMM 2015-01 (Att. A) FAD set limits		
2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	COLUMN A	COLUMN B	CCM
15	139	160	512	861	923	826	1,199	1,672	688	2,013	1,127	1,405	1,487	747	63		738	CHINA
0	0	0	0	0	0	75	367	139	220	440	442	275	343	143	42		104	ECUADOR
11	26	1	0	0	0	53	152	163	136	186	211	297	306	176	94		52	EL SALVADOR
77	32	59	82	47	125	238	411	330	359	488	459	515	431	327	93		149	EUROPEAN UNION
324	387	489	789	497	282	338	479	737	417	788	820	537	605	620	353	604	528	FSM
?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?			INDONESIA
2,320	2,021	2,266	3,162	2,379	2,617	2,437	2,607	2,403	833	1,320	1,619	1,038	1,026	663	888	2,139	1,867	JAPAN
72	62	63	97	104	66	61	78	267	243	552	486	667	823	1,078	97	493	439	KIRIBATI
392	578	876	1,064	934	741	891	464	617	630	1,544	1,386	1,165	1,212	1,050	670		900	MARSHALL ISLANDS
136	399	439	574	196	488	418	439	387	189	189	159	104	141	47	17		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	1,833		1,972	PAPUA NEW GUINEA
901	1,034	1,240	1,197	1,131	848	246	536	552	375	401	622	487	393	356	279		403	PHILIPPINES (distant-water)
?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?			PHILIPPINES (domestic)
551	1,221	711	2,518	889	2,300	1,867	1,958	2,126	1,097	2,116	1,421	1,167	1,091	1,533	1,579	2,286	1,996	REPUBLIC OF KOREA
150	118	100	88	109	252	130	86	173	80	147	191	134	99	107	244		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		2,109	CHINESE TAIPEI
0	0	0	0	0	0	0	0	22	40	58	92	78	49	36	59		113	TUVALU
2,022	1,772	1,561	2,066	1,317	1,543	1,393	2,757	3,777	2,384	3,389	3,432	3,156	3,696	2,029	2,125		2,522	USA
36	143	182	655	528	467	626	172	242	169	391	261	260	229	124	37		306	VANUATU
9,424	11,852	11,081	18,735	13,797	15,783	14,058	15,367	17,962	10,547	18,263	17,434	15,124	16,267	11,997	9,964		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 and China reflect their respective WCPFC charter notifications.

**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	557	686		(4)
AUSTRALIA	1,307	1,002	1,024	892	791	499	1,008	1,027	726	458	379	553	489	490	785	870		(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	183		(4)
EU-PORTUGAL	0	0	0	0	0	0	0	0	0	0	3	17	106	71	17	10		(7)
EU-SPAIN	0	0	0	42	17	62	62	77	46	15	10	23	23	65	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	1,803		(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	556		(4)
GUAM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	831	939		(4)
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	86		(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	61		(4)
SENEGAL	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0		(4)
SOLOMON ISLANDS	187	401	385	294	3	0	0	0	0	806	213	0	0	3,054	4,390	0		(4), (11)
TONGA	191	215	94	40	125	117	129	81	38	24	18	10	7	22	25	27		(4)
TUVALU	0	0	0	0	0	0	0	0	0	0	105	1,408	120	76	187	103		(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	3,427	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	2,845		(4)
WALLIS AND FUTUNA	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0		(4)
<b>Total</b>	<b>73,938</b>	<b>89,177</b>	<b>78,914</b>	<b>93,664</b>	<b>73,920</b>	<b>78,382</b>	<b>75,740</b>	<b>78,139</b>	<b>75,684</b>	<b>67,907</b>	<b>71,127</b>	<b>78,520</b>	<b>61,724</b>	<b>68,364</b>	<b>67,808</b>	<b>57,136</b>	<b>60,305</b>	
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	360	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	1,259	1,341	1,685	2,177	1,763	3,097	
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), (11)
COOK ISLANDS	1	42	178	506	413	262	290	247	197	192	394	693	346	504	339	314	182	(4)
EU-PORTUGAL	0	0	0	0	0	0	0	0	0	0	0	0	2	22	4	6	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	1,589	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	941	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	
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	
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	728	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	239	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	0	315	(4), (11)
TONGA	259	263	263	163	219	227	341	291	109	47	171	140	126	195	297	322	237	(4)
TUVALU	0	0	0	0	0	0	0	0	0	0	286	453	114	41	166	124	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	681	1,098	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	974	(4)
WALLIS AND FUTUNA	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	(4)
<b>Total</b>	<b>72,460</b>	<b>74,072</b>	<b>78,320</b>	<b>77,996</b>	<b>71,619</b>	<b>67,070</b>	<b>62,801</b>	<b>65,845</b>	<b>82,371</b>	<b>79,546</b>	<b>74,014</b>	<b>68,003</b>	<b>52,351</b>	<b>72,741</b>	<b>87,135</b>	<b>63,578</b>	<b>75,712</b>	
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	SKJ	YFT	BET	TOTAL					
					SETS	MT	%	MT	%	MT	%	MT	SETS	MT	%	MT	%	MT	%	MT	SETS	MT	MT	MT	MT				
CN	2010	12	10	2,784	2,095	21,501	74%	7,269	25%	261	1%	29,031	692	17,253	70%	5,337	22%	1,939	8%	24,529	2,788	38,864	12,641	2,209	53,714				
CN	2011	12	10	4,019	1,396	11,355	74%	3,852	25%	111	1%	15,318	2,023	46,304	74%	11,713	19%	4,205	7%	62,222	3,419	57,659	15,565	4,316	77,540				
CN	2012	13	12	2,205	706	9,904	71%	3,856	28%	142	1%	13,902	1,143	26,324	75%	6,583	19%	2,338	7%	35,246	1,849	36,228	10,439	2,480	49,148				
CN	2013	14	12	3,623	2,350	26,783	87%	3,919	13%	270	1%	30,971	1,409	37,084	73%	10,050	20%	3,398	7%	50,531	3,760	64,099	14,044	3,685	81,828				
CN	2014	19	18	3,153	1,443	17,617	83%	3,304	16%	193	1%	21,114	1,474	45,546	78%	9,515	16%	3,438	6%	58,499	2,917	63,163	12,818	3,631	79,613				
CN	2015	20	16	2,011	913	12,043	74%	3,877	24%	269	2%	16,189	749	21,152	78%	4,419	16%	1,476	6%	27,047	1,662	33,195	8,296	1,745	43,236				
CN	2016	2	16	504	396	5,444	68%	2,402	30%	134	2%	7,981	146	2,917	68%	1,100	26%	255	6%	4,272	544	8,402	3,518	391	12,311				
EC	2010	14	6	319	21	129	74%	43	25%	3	2%	175	233	6,437	58%	2,589	23%	2,119	19%	11,145	254	6,566	2,631	2,123	11,320				
EC	2011	8	7	556	41	212	25%	637	75%	2	0%	851	447	18,522	65%	4,637	16%	5,173	18%	28,332	488	18,734	5,274	5,175	29,183				
EC	2012	8	7	605	17	363	63%	210	37%	2	0%	575	444	15,403	68%	3,369	15%	3,798	17%	22,570	461	15,767	3,579	3,800	23,145				
EC	2013	7	7	466	70	2,106	92%	145	6%	29	1%	2,280	284	13,385	70%	2,587	14%	3,190	17%	19,162	355	15,491	2,732	3,219	21,442				
EC	2014	7	7	478	57	1,142	88%	149	12%	6	1%	1,297	360	15,700	76%	2,010	10%	2,832	14%	20,542	417	16,842	2,159	2,838	21,839				
EC	2015	7	4	162	1	0	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%	0	42	2,810	72%	514	13%	600	15%	3,925	42	2,810	514	600	3,925				
ES	2010	4	4	720	26	708	86%	106	13%	5	1%	820	364	19,831	69%	4,685	16%	4,132	14%	28,648	390	20,539	4,791	4,138	29,468				
ES	2011	4	4	753	30	418	31%	908	68%	7	1%	1,334	488	26,722	70%	5,303	14%	6,092	16%	38,117	518	27,141	6,212	6,099	39,451				
ES	2012	4	4	787	57	1,863	67%	876	32%	27	1%	2,767	461	19,368	66%	4,575	16%	5,461	19%	29,404	517	21,231	5,451	5,489	32,171				
ES	2013	4	4	837	56	2,748	91%	271	9%	7	0%	3,026	515	28,492	66%	7,179	17%	7,469	17%	43,141	571	31,240	7,450	7,477	46,167				
ES	2014	4	4	753	89	2,962	70%	1,244	30%	8	0%	4,213	431	27,454	76%	3,653	10%	5,141	14%	36,247	520	30,415	4,896	5,148	40,460				
ES	2015	4	4	534	28	1,287	94%	81	6%	0	0%	1,368	326	26,798	84%	3,134	10%	1,908	6%	31,840	355	28,085	3,214	1,909	33,208				
ES	2016	2	2	127	1	0	0%	0	0%	0	0%	0	92	6,283	74%	703	8%	1,523	18%	8,508	93	6,283	703	1,523	8,508				
FM	2010	7	8	1,305	612	8,592	81%	1,960	18%	92	1%	10,645	419	10,325	73%	2,712	19%	1,041	7%	14,078	1,031	18,917	4,672	1,133	24,723				
FM	2011	7	7	1,641	483	5,789	76%	1,821	24%	51	1%	7,661	790	13,373	71%	4,370	23%	1,090	6%	18,832	1,276	19,169	6,194	1,141	26,505				
FM	2012	9	9	1,573	464	6,331	75%	2,034	24%	67	1%	8,432	826	21,752	79%	4,116	15%	1,667	6%	27,535	1,301	28,305	6,183	1,745	36,233				
FM	2013	10	10	1,384	450	8,999	86%	1,322	13%	99	1%	10,420	539	13,117	75%	3,132	18%	1,214	7%	17,464	989	22,116	4,454	1,313	27,884				
FM	2014	10	10	1,414	611	13,056	85%	2,136	14%	237	2%	15,429	614	17,126	76%	4,118	18%	1,402	6%	22,646	1,225	30,182	6,253	1,639	38,075				
FM	2015	12	13	1,883	1,212	26,140	83%	4,963	16%	349	1%	31,452	627	19,495	80%	3,535	15%	1,261	5%	24,290	1,839	45,635	8,498	1,610	55,743				
FM	2016	16	18	2,751	1,065	21,266	79%	5,312	20%	436	2%	27,014	1,137	34,515	77%	6,881	15%	3,280	7%	44,675	2,202	55,781	12,193	3,716	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	81,541	75%	26,171	24%	1,710	2%	109,422	888	24,846	70%	8,031	23%	2,782	8%	35,660	5,142	108,194	34,990	4,712	147,896				
KI	2010	5	4	693	465	7,468	80%	1,854	20%	74	1%	9,396	245	11,296	72%	2,449	16%	1,945	12%	15,691	741	19,219	4,441	2,085	25,746				
KI	2011	7	7	1,429	785	9,382	71%	3,778	29%	73	1%	13,232	554	24,986	75%	4,563	14%	3,642	11%	33,190	1,347	34,427	8,358	3,728	46,514				
KI	2012	9	9	1,845	1,592	29,825	78%	8,001	21%	304	1%	38,130	491	19,424	81%	2,931	12%	1,722	7%	24,076	2,091	49,434	10,966	2,033	62,432				
KI	2013	12	12	2,007	1,443	26,864	81%	6,111	18%	284	1%	33,259	669	28,835	74%	6,657	17%	3,491	9%	38,982	2,113	55,698	12,768	3,775	72,241				
KI	2014	14	15	2,820	2,188	45,561	77%	13,068	22%	265	1%	58,893	831	40,930	81%	5,438	11%	3,914	8%	50,281	3,019	86,490	18,505	4,178	109,174				
KI	2015	21	21	2,942	2,563	62,369	87%	9,210	13%	401	1%	71,981	1,085	55,901	86%	6,234	10%	2,581	4%	64,716	3,649	118,270	15,444	2,982	136,697				
KI	2016	27	23	4,552	2,360	50,717	82%	10,794	17%	627	1%	62,137	1,887	81,966	81%	11,999	12%	7,387	7%	101,352	4,247	132,683	22,792	8,013	163,489				



Table 7. (continued)

FLEET	YEAR	VESSELS		DAYS	UNASSOCIATED SCHOOLS								ASSOCIATED SCHOOLS								TOTAL				
		YB	LOG		SKIPJACK		YELLOWFIN		BIGEYE		TOTAL	SKIPJACK		YELLOWFIN		BIGEYE		TOTAL	SKJ	YFT	BET	TOTAL			
					SETS	MT	%	MT	%	MT	%	MT	SETS	MT	%	MT	%	MT	SETS	MT	MT	MT	MT		
KR	2010	29	28	7,178	6,308	145,975	71%	56,817	28%	2,235	1%	205,027	1,117	56,620	78%	10,980	15%	4,606	6%	72,206	7,433	202,651	67,817	6,846	277,313
KR	2011	28	28	6,552	4,493	79,827	73%	28,930	26%	645	1%	109,402	2,128	73,771	75%	17,026	17%	7,309	8%	98,107	6,627	153,744	45,999	7,961	207,704
KR	2012	28	28	5,836	6,099	142,904	77%	41,482	22%	1,478	1%	185,865	1,433	62,764	82%	9,744	13%	3,819	5%	76,326	7,533	205,668	51,226	5,297	262,191
KR	2013	27	28	5,983	6,068	131,567	81%	29,797	18%	1,829	1%	163,192	1,171	48,371	78%	10,364	17%	3,703	6%	62,439	7,239	179,938	40,161	5,532	225,631
KR	2014	28	29	5,437	5,820	163,341	82%	35,816	18%	1,065	1%	200,221	1,097	58,179	83%	7,894	11%	3,754	5%	69,827	6,917	221,520	43,710	4,818	270,048
KR	2015	25	26	4,763	4,615	133,142	84%	24,990	16%	1,252	1%	159,384	1,540	96,547	87%	10,417	9%	3,930	4%	110,894	6,155	229,689	35,408	5,182	270,278
KR	2016	25	25	4,702	4,211	129,906	77%	36,827	22%	1,879	1%	168,612	1,588	89,989	82%	12,725	12%	7,129	7%	109,843	5,799	219,895	49,552	9,008	278,455
MH	2010	10	10	1,670	1,228	19,300	78%	5,342	22%	261	1%	24,903	636	24,976	74%	5,472	16%	3,271	10%	33,718	1,881	44,668	10,942	3,551	59,162
MH	2011	10	10	2,521	547	7,692	81%	1,793	19%	75	1%	9,561	1,550	60,084	75%	12,815	16%	7,724	10%	80,622	2,097	67,776	14,608	7,799	90,183
MH	2012	10	10	1,989	748	11,196	68%	5,064	31%	115	1%	16,375	1,394	45,449	79%	7,630	13%	4,141	7%	57,220	2,142	56,644	12,694	4,256	73,595
MH	2013	10	10	2,132	1,075	17,811	89%	2,165	11%	101	1%	20,077	1,167	42,789	74%	10,352	18%	4,353	8%	57,494	2,243	60,642	12,534	4,458	77,634
MH	2014	12	11	2,131	1,127	19,042	88%	2,436	11%	117	1%	21,596	1,219	42,916	79%	8,027	15%	3,357	6%	54,300	2,346	61,959	10,463	3,474	75,896
MH	2015	12	12	2,203	1,839	35,358	94%	2,156	6%	84	0%	37,598	1,063	41,224	84%	5,638	11%	2,409	5%	49,271	2,903	76,582	7,793	2,493	86,869
MH	2016	10	10	1,975	1,305	23,515	84%	4,304	15%	209	1%	28,027	671	26,660	81%	4,132	13%	2,154	7%	32,946	1,976	50,175	8,436	2,363	60,973
NZ	2010	4	4	564	371	8,059	97%	221	3%	7	0%	8,287	192	7,836	82%	1,338	14%	420	4%	9,594	564	15,895	1,559	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	1,619	552	10,742
NZ	2012	4	4	471	288	5,368	86%	818	13%	31	1%	6,217	162	3,816	82%	632	14%	230	5%	4,678	450	9,184	1,450	260	10,895
NZ	2013	4	4	306	173	4,943	94%	314	6%	9	0%	5,265	120	4,342	80%	738	14%	373	7%	5,453	293	9,285	1,052	382	10,719
NZ	2014	5	5	301	173	3,699	87%	516	12%	18	0%	4,233	157	4,685	86%	522	10%	246	5%	5,453	330	8,384	1,038	264	9,685
NZ	2015	2	2	263	276	5,109	93%	327	6%	73	1%	5,510	51	2,375	88%	249	9%	89	3%	2,713	327	7,484	576	162	8,222
NZ	2016	2	2	135	150	2,751	99%	29	1%	4	0%	2,785	21	1,422	87%	139	9%	81	5%	1,641	171	4,173	168	85	4,426
PG	2010	45	48	8,914	5,461	90,323	73%	31,463	26%	1,307	1%	123,093	2,659	56,922	70%	19,987	24%	5,032	6%	81,940	8,125	147,363	51,475	6,346	205,184
PG	2011	49	50	9,202	4,733	65,207	77%	18,857	22%	432	1%	84,496	3,289	62,109	72%	19,551	23%	4,142	5%	85,801	8,035	127,594	38,494	4,594	170,682
PG	2012	51	50	9,817	6,335	95,681	70%	40,568	29%	1,519	1%	137,768	3,210	69,358	71%	22,941	24%	5,370	6%	97,668	9,589	165,543	63,687	6,934	236,163
PG	2013	51	50	8,961	6,040	88,951	72%	32,226	26%	1,674	1%	122,851	2,454	48,809	67%	19,207	27%	4,373	6%	72,389	8,509	137,946	51,533	6,067	195,546
PG	2014	55	51	9,640	6,326	105,694	74%	34,954	25%	1,836	1%	142,483	2,395	68,173	74%	17,769	19%	5,835	6%	91,777	8,744	174,249	52,916	7,716	234,881
PG	2015	53	54	6,689	5,660	107,828	74%	35,034	24%	2,009	1%	144,870	1,586	51,754	74%	13,393	19%	4,466	6%	69,613	7,251	159,599	48,435	6,477	214,511
PG	2016	67	51	8,534	7,218	124,041	66%	61,343	33%	3,211	2%	188,595	2,096	74,012	76%	18,269	19%	5,713	6%	97,994	9,344	198,999	80,054	9,032	288,085
PH	2010	25	24	4,480	2,339	30,682	63%	17,039	35%	711	2%	48,432	777	16,456	65%	7,174	28%	1,854	7%	25,485	3,222	48,174	24,770	2,653	75,596
PH	2011	25	23	5,694	3,201	41,548	72%	16,115	28%	292	1%	57,955	1,275	21,617	68%	9,228	29%	1,010	3%	31,855	4,574	64,004	25,674	1,338	91,016
PH	2012	21	28	6,276	4,330	51,531	63%	29,417	36%	1,350	2%	82,298	1,650	29,807	67%	12,873	29%	2,036	5%	44,716	6,031	81,961	42,441	3,416	127,818
PH	2013	27	27	4,808	3,175	35,416	55%	27,396	43%	1,216	2%	64,028	1,363	22,381	58%	13,750	36%	2,212	6%	38,343	4,584	58,445	41,561	3,482	103,488
PH	2014	27	29	4,940	3,771	58,402	64%	31,446	34%	1,515	2%	91,363	1,112	19,322	63%	9,623	31%	1,932	6%	30,877	4,904	77,935	41,198	3,474	122,607
PH	2015	23	21	2,888	1,981	24,902	56%	18,695	42%	996	2%	44,592	834	15,802	53%	11,402	38%	2,752	9%	29,955	2,824	41,111	30,312	3,837	75,260
PH	2016	17	17	1,985	1,601	27,097	59%	18,086	39%	923	2%	46,107	547	15,386	65%	6,661	28%	1,602	7%	23,649	2,196	43,428	25,263	2,703	71,394
SB	2010	5	5	485	95	2,020	58%	1,426	41%	34	1%	3,480	353	6,637	68%	2,773	29%	328	3%	9,737	448	8,656	4,199	362	13,217
SB	2011	5	5	1,006	119	2,266	80%	559	20%	11	0%	2,836	742	14,356	63%	7,398	33%	971	4%	22,726	861	16,623	7,957	982	25,562
SB	2012	5	5	1,094	98	1,547	74%	549	26%	0	0%	2,096	833	15,689	64%	8,117	33%	597	2%	24,404	931	17,237	8,666	598	26,500
SB	2013	5	5	1,093	213	2,960	66%	1,506	33%	44	1%	4,510	664	12,961	64%	6,624	33%	673	3%	20,259	876	15,921	8,130	718	24,769
SB	2014	5	5	1,212	269	3,840	49%	4,017	51%	12	0%	7,869	787	12,127	54%	9,970	44%	457	2%	22,554	1,056	15,967	13,988	470	30,425
SB	2015	8	6	1,343	389	5,409	58%	3,893	42%	81	1%	9,384	787	10,398	54%	8,638	45%	372	2%	19,409	1,176	15,807	12,531	454	28,792
SB	2016	8	8	2,172	1,020	14,290	60%	9,250	39%	309	1%	23,849	1,060	18,491	59%	12,236	39%	829	3%	31,556	2,094	32,930	21,681	1,160	55,771

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					
SV	2010	2	2	210	3	13	46%	0	0%	15	54%	28	136	4,801	65%	1,395	19%	1,148	16%	7,344	139	4,814	1,395	1,163	7,372
SV	2011	2	2	268	3	18	21%	67	79%	0	0%	85	185	8,606	71%	1,668	14%	1,867	15%	12,141	188	8,624	1,735	1,867	12,226
SV	2012	2	2	300	4	15	100%	0	0%	0	0%	15	213	9,022	66%	2,278	17%	2,332	17%	13,632	217	9,037	2,278	2,332	13,647
SV	2013	4	4	404	13	340	83%	70	17%	2	1%	412	296	11,218	67%	2,919	17%	2,668	16%	16,805	309	11,558	2,989	2,670	17,217
SV	2014	4	4	485	92	1,975	98%	43	2%	1	0%	2,019	303	11,391	74%	2,124	14%	1,947	13%	15,461	394	13,366	2,166	1,947	17,480
SV	2015	2	2	185	7	0	0%	0	0%	0	0%	0	177	12,251	80%	2,012	13%	1,036	7%	15,300	184	12,251	2,012	1,036	15,300
SV	2016	3	2	112	6	676	100%	1	0%	0	0%	677	95	5,416	82%	563	9%	647	10%	6,626	101	6,092	564	647	7,303
TV	2010	1	1	271	319	6,864	76%	2,077	23%	55	1%	8,997	40	1,129	73%	314	20%	114	7%	1,557	359	7,993	2,392	170	10,554
TV	2011	1	1	311	283	4,353	81%	974	18%	24	0%	5,351	58	1,603	78%	286	14%	177	9%	2,066	341	5,957	1,260	200	7,417
TV	2012	1	1	271	301	3,281	60%	2,177	40%	42	1%	5,500	92	4,524	82%	712	13%	318	6%	5,554	393	7,805	2,889	360	11,054
TV	2013	1	1	273	353	6,844	89%	817	11%	60	1%	7,721	79	2,845	77%	649	18%	201	5%	3,695	432	9,689	1,466	261	11,416
TV	2014	1	1	159	146	3,199	87%	449	12%	26	1%	3,675	49	1,835	81%	286	13%	146	6%	2,268	195	5,035	736	173	5,943
TV	2015	1	1	186	174	3,588	97%	99	3%	4	0%	3,690	36	1,526	86%	187	11%	68	4%	1,780	210	5,113	285	71	5,470
TV	2016	1	1	234	93	2,452	97%	63	3%	6	0%	2,520	59	3,042	85%	434	12%	115	3%	3,590	152	5,493	496	120	6,110
TW	2010	34	30	7,865	6,413	94,452	77%	27,043	22%	1,113	1%	122,609	1,709	56,081	74%	14,736	19%	5,423	7%	76,241	8,122	150,534	41,780	6,536	198,850
TW	2011	34	31	8,841	4,798	54,888	79%	14,188	20%	403	1%	69,480	2,959	79,503	75%	19,003	18%	7,947	8%	106,454	7,757	134,392	33,192	8,351	175,934
TW	2012	34	33	7,051	4,617	61,458	71%	24,031	28%	839	1%	86,328	2,903	89,681	78%	17,447	15%	7,196	6%	114,324	7,520	151,139	41,479	8,035	200,653
TW	2013	34	34	7,530	6,146	87,039	85%	14,259	14%	1,054	1%	102,352	2,580	81,515	74%	21,021	19%	7,592	7%	110,128	8,725	168,555	35,280	8,646	212,480
TW	2014	34	35	6,735	5,784	103,494	87%	14,244	12%	1,169	1%	118,908	2,611	93,158	79%	17,876	15%	7,216	6%	118,249	8,396	196,652	32,120	8,385	237,157
TW	2015	34	34	5,080	4,661	80,192	76%	24,074	23%	1,439	1%	105,704	1,739	70,755	80%	12,869	15%	4,870	6%	88,494	6,403	150,986	36,953	6,311	194,250
TW	2016	34	31	5,259	4,769	83,134	73%	29,284	26%	1,510	1%	113,927	1,502	57,206	78%	11,405	16%	4,502	6%	73,113	6,273	140,340	40,689	6,012	187,040
US	2010	37	37	8,220	6,331	110,502	83%	21,508	16%	798	1%	132,809	2,397	87,172	78%	18,052	16%	7,111	6%	112,336	8,738	197,895	39,699	7,929	245,524
US	2011	37	36	8,048	3,008	46,843	78%	12,826	21%	274	1%	59,943	3,401	110,613	77%	21,423	15%	11,261	8%	143,297	6,409	157,456	34,249	11,535	203,240
US	2012	39	39	8,784	5,620	99,644	81%	23,266	19%	810	1%	123,720	3,464	109,551	81%	18,687	14%	7,744	6%	135,981	9,086	209,243	41,959	8,557	259,759
US	2013	40	41	8,388	5,022	95,327	91%	9,255	9%	442	0%	105,024	3,175	111,748	75%	25,052	17%	12,332	8%	149,131	8,201	207,166	34,315	12,790	254,271
US	2014	40	40	9,069	6,268	119,355	85%	19,977	14%	566	0%	139,897	3,717	143,189	83%	20,331	12%	9,588	6%	173,108	9,987	262,544	40,308	10,154	313,005
US	2015	39	39	6,984	5,901	110,696	88%	14,372	11%	713	1%	125,781	2,056	97,000	86%	10,602	9%	4,694	4%	112,296	7,957	207,696	24,974	5,407	238,077
US	2016	37	37	5,580	3,333	76,268	88%	9,763	11%	485	1%	86,515	2,177	93,977	82%	14,265	12%	6,380	6%	114,621	5,511	170,255	24,031	6,866	201,152
VU	2010	5	5	872	469	10,698	81%	2,490	19%	89	1%	13,277	198	8,362	80%	1,463	14%	615	6%	10,440	668	19,062	3,953	704	23,720
VU	2011	6	4	1,142	287	5,326	80%	1,332	20%	37	1%	6,695	391	12,747	76%	2,849	17%	1,092	7%	16,688	678	18,073	4,181	1,129	23,382
VU	2012	6	3	775	472	9,635	65%	5,062	34%	130	1%	14,827	268	9,963	82%	1,447	12%	764	6%	12,175	740	19,599	6,510	894	27,002
VU	2013	6	4	974	607	11,697	87%	1,709	13%	84	1%	13,490	263	9,932	78%	2,017	16%	763	6%	12,712	870	21,629	3,726	847	26,202
VU	2014	3	3	685	362	8,805	89%	1,033	10%	69	1%	9,906	230	8,650	80%	1,567	14%	638	6%	10,855	592	17,455	2,600	706	20,761
VU	2015	3	3	293	104	1,617	96%	71	4%	3	0%	1,692	126	5,616	84%	736	11%	301	5%	6,653	229	7,233	807	304	8,344
VU	2016	3	3	164	40	1,318	95%	56	4%	8	1%	1,382	37	2,492	83%	197	7%	322	11%	3,011	77	3,810	253	330	4,393

**Table 7. (continued)**

YEAR	VESSELS			DAYS	UNASSOCIATED SCHOOLS								ASSOCIATED SCHOOLS								TOTAL				
	YB	LOG	SETS		SKIPJACK		YELLOWFIN		BIGEYE		TOTAL	SETS	SKIPJACK		YELLOWFIN		BIGEYE		TOTAL	SETS	SKJ	YFT	BET	TOTAL	
					MT	%	MT	%	MT	%	MT		MT	MT	%	MT	%	MT	MT		MT	MT			
2010	276	263	52,245	38,189	689,087	76%	211,479	23%	8,283	1%	908,854	13,000	420,989	74%	106,603	19%	43,429	8%	571,022	51,469	1,114,300	320,336	52,075	1,486,710	
2011	279	267	58,968	30,303	430,167	76%	132,955	23%	3,317	1%	566,442	21,793	622,808	74%	149,287	18%	67,161	8%	839,254	52,255	1,054,826	282,826	70,563	1,408,215	
2012	285	281	55,128	36,615	631,803	75%	207,511	24%	8,479	1%	847,795	20,606	613,494	77%	132,236	17%	53,203	7%	798,932	57,365	1,247,085	340,275	61,806	1,649,167	
2013	297	287	54,669	38,013	651,784	81%	148,447	18%	8,878	1%	809,106	17,786	561,404	73%	149,225	19%	60,912	8%	771,541	55,904	1,214,928	298,613	69,990	1,583,531	
2014	308	300	54,310	38,802	757,637	79%	192,946	20%	9,504	1%	960,084	18,413	648,049	78%	128,124	15%	54,770	7%	830,940	57,300	1,407,389	321,812	64,600	1,793,800	
2015	306	291	42,607	33,710	694,478	79%	171,322	20%	10,374	1%	876,173	13,596	557,632	80%	101,027	15%	36,501	5%	695,160	47,449	1,255,778	274,072	47,274	1,577,123	
2016	293	277	43,828	31,744	644,416	74%	213,685	25%	11,451	1%	869,550	14,045	541,430	78%	110,254	16%	45,301	6%	696,982	45,964	1,189,742	325,899	57,281	1,572,922	

**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, 2010-2016.**

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	38,405
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	88,725
FM	76,704	94,564	110,591	85,598	74,842	149,576	181,363
JP	591,056	544,105	513,557	453,453	391,151	342,608	271,129
KI	0	19,626	45,193	27,577	23,868	36,636	66,975
KR	728,899	803,678	771,103	626,874	603,157	506,797	587,646
MH	16,828	16,763	20,679	6,286	0	585	63,218
PF	0	242	147	246	437	18	1,123
PG	24,589	51,692	40,188	14,849	19,232	7,897	8,997
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	1,309,957	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	181,589	240,492
VU	76,507	89,530	127,777	186,070	130,340	286,797	202,135
	3,620,819	4,233,413	4,611,259	3,593,891	3,591,180	4,329,225	3,703,939

**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	326	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	600	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	1,563	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	7,522	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	3,611	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	1,011	354
TUVALU	170	200	362	261	174	60	125	134
USA	7,930	11,533	8,553	12,779	10,140	5,460	6,866	5,136
VANUATU	704	1,129	822	650	699	304	330	487
VIETNAM	325	688	965	805	1,192	1,394	2,081	363
	56,137	72,243	65,559	74,710	67,983	51,522	62,066	

**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.