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ON THE CMM ON TROPICAL TUNAS

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Prepared by SPC-OFP

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¹ REVISION - 25 November 2013: Table 8 has been updated to reflect the latest submission of aggregate data from Chinese Taipei (received on 31st July 2013).



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Data summaries in support of discussions on the CMM on tropical tunas

According to data last updated – 20th July 2013

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	<p>A breakdown of tuna species catch estimates by YEAR, FLAG and FLEET are also available in the WCPFC Tuna Fishery Yearbook (2012) EXCEL tables at the following web page.</p> <p>http://www.wcpfc.int/statistical-bulletins</p>	

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

EEZ	2001	2002	2003	2004	Av. 2001- CMM 2008-		2005	2006	2007	2008	2009	2010	2011	2012
					2004	01								
COOK ISLANDS	46	228	8	6	72	72	2	8	3	29	44	19	102	497
FIJI	12	5	10	26	13	26	36	6	6	23	11	29	27	28
FRENCH POLYNESIA	0	2	0	0	1	1	0	0	0	0	0	0	0	0
INDONESIA	2,831	2,876	3,355	4,429	3,373	4,429	1,616	1,480	1,443	1,482	2,019	1,926	2,309	3,095
NIUE	0	0	1	0	0	0	0	0	0	0	0	0	1	0
PHILIPPINES	3,611	3,866	5,395	5,618	4,623	5,618	5,260	5,243	5,891	7,186	5,107	3,348	2,338	1,982
SAMOA	7	11	3	4	6	6	3	1	3	7	9	7	39	30
TOKELAU	99	395	27	69	148	148	128	33	48	137	214	178	866	743
TONGA	2	0	0	1	1	1	1	0	0	0	0	0	0	0
USA	350	480	237	300	342	342	132	191	106	63	129	33	42	202
VANUATU	2	2	0	23	0	0	1	0	0	14	1	0	4	5
VIETNAM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WALLIS AND FUTUNA	5	3	4	0	3	3	4	0	0	6	6	1	3	1
PNA EEZs - excl. AWs	24,825	27,119	29,360	30,587	27,973	30,587	32,276	31,926	31,394	33,446	32,334	44,033	46,990	41,268
PNA EEZs - AW only	2,409	2,214	3,571	3,152	2,837		4,633	3,906	5,504	5,727	6,463	5,727	8,183	8,108
PNA EEZs - TOTAL	27,234	29,333	32,931	33,739	30,809		36,909	35,832	36,898	39,173	38,815	49,768	55,175	49,376
TOTAL EEZs - excl. AWs	31,785	34,984	38,396	41,063	36,557	41,063	39,455	38,888	38,894	42,387	39,868	49,573	52,718	47,850
TOTAL EEZs - excl. AWs and ID/PH	25,343	28,242	29,646	31,016	28,562	31,016	32,579	32,165	31,560	33,719	32,742	44,299	48,071	42,773
TOTAL EEZs (incl. AWs)	34,194	37,198	41,967	44,215	39,394	44,215	44,088	42,794	44,398	48,114	46,349	55,308	60,903	55,958
TOTAL INT. WATERS	7,277	8,210	8,296	10,308			8,752	6,592	8,105	9,718	11,213	2,312	2,039	2,813
TOTAL (EEZs + IW)	41,471	45,408	50,263	54,523			52,840	49,386	52,503	57,832	57,562	57,620	62,942	58,771
TOTAL minus ID/PH	34,529	38,166	41,013	43,976			45,464	42,163	44,669	48,664	49,936	51,846	57,795	53,194

TABLE 1 -- Notes:

1. Source: Raised logsheet data.
2. The column labeled "CMM-2008-01" does not take into account paragraphs 6 and 7, and footnote 2 of CMM 2008-01
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 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).
4. Purse-seine days for Indonesia and the Philippines 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).
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 does not includes estimates of effort for the Philippines domestic fleet at this stage (refer to note on the Philippines in Table 2(b)).
7. In 2012, 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 for 2012.

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

Flag	PURSE SEINE DAYS FISHED INTERNATIONAL WATERS 20°N-20°S														
	2001	2002	2003	2004	Av.		2005	2006	2007	2008	2009	2010	2011	2012	
					2001-2004	CMM 2008-01									
CHINA	88	125	149	424	197	424	505	231	334	260	988	13	7	26	
ECUADOR	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
EL SALVADOR	2	13	0	0	4	4	0	0	78	67	64	44	31	26	
EUROPEAN UNION	38	63	86	103	73	103	92	227	470	457	403	495	330	429	
FSM	239	239	176	384	260	384	218	86	168	125	334	6	3	14	
INDONESIA	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
JAPAN	1,366	1,269	1,755	1,867	1,564	1,867	1,837	1,579	1,348	2,332	2,534	117	67	121	
KIRIBATI	41	54	40	36	43	43	50	52	22	19	194	108	187	112	
MARSHALL ISLANDS	170	209	441	396	304	396	400	154	152	282	167	71	34	0	
NEW ZEALAND	23	329	342	206	225	342	96	287	200	196	206	67	28	88	
PAPUA NEW GUINEA	381	575	583	1,132	668	1,132	1,247	403	671	592	802	78	22	43	
PHILIPPINES	13	56	449	464	246	464	320	151	26	73	20	2	0	3	
REPUBLIC OF KOREA	1,302	1,285	1,153	1,244	1,246	1,246	1,069	734	1,391	1,502	1,692	207	65	24	
SOLOMON ISLANDS	31	37	0	0	17	17	17	15	5	0	0	0	0	0	
TUVALU	0	0	0	0	0	0	0	0	0	0	36	4	5	0	
CHINESE TAIPEI	1,965	1,862	1,493	1,914	1,809	1,914	1,257	1,249	1,501	1,334	1,357	95	82	26	
USA	969	1,315	858	989	1,033	1,033	767	527	791	1,546	1,739	394	579	1,270	
VANUATU	67	166	186	579	250	579	378	397	369	214	101	37	30	1	
TOTAL	7,195	8,097	8,211	10,238	8,435	10,447	8,753	6,592	8,026	9,499	11,137	2,239	1,970	2,684	

TABLE 2 -- Notes:

1. Source: Raised logsheet data. 2012 data are provisional.
2. The column labeled "CMM-2008-01" does not take into account paragraphs 6 and 7, and footnote 2 of CMM 2008-01
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 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).
4. 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)
5. The New Zealand purse seine fleet are covered by the reference in footnote 2 in paragraph 10 of CMM2008-01, and the days in Table 2 of CMM 2008-01. Using this footnote, New Zealand can use the days from 2003.
6. The International waters effort for the Philippines domestic fleet is not included since effort for years other than 2004 are not available (refer to note on the Philippines in Table 2(b)).
7. During September 2012, USA and Chinese Taipei advised the WCPFC Secretariat of their estimates for 2011, which differ from the values above, and will be reviewed by SPC in due course once 2011 operational data are complete and available. The estimates could also vary due to, inter alia, differences in the respective EEZ coordinates used.
8. In 2012, 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 for 2012.
9. WCPFC8 agreed that the limit for Ecuador and El Salvador be based on high seas excluding the WCPFC/IATTC overlap area and so the days presented here for these fleets excludes the effort in the overlap area. Total days in Table 2(a) do not therefore reconcile with total high seas days in Table 1.

Table 2(b). Limit estimates for the high seas and the zones of non-PNA CCMs (and non-WCPFC members) established by CMM-2008-01 between 20°N and 20°S average vessel days 2001-2004 or 2004

Entity	Vessel days						SEE NOTE
	National Waters		High Seas (Pockets 1 & 2)		High Seas (remainder)		
	2004	2001-2004	2004	2001-2004	2004	2001-2004	
AMERICAN SAMOA	-	-	-	-	-	-	
AUSTRALIA	-	-	-	-	-	-	
CANADA	-	-	-	-	-	-	
CHINA	-	-	393	190	34	10	
CHINESE TAIPEI	-	-	1,836	1,459	77	349	
CNMI	-	-	-	-	-	-	
COOK ISLANDS	6	73	-	-	-	-	
ECUADOR	-	-	-	-	12	4	(1)
EL SALVADOR	-	-	-	-	-	16	
EC-SPAIN	-	-	-	-	103	73	(2)
FIJI	29	14	-	-	-	-	
FRENCH POLYNESIA	-	2	-	-	-	-	
FSM	-	-	343	213	40	47	
GUAM	-	-	-	-	-	-	
INDONESIA	6,363	-	500	-	-	-	(3)
JAPAN	-	-	1,715	1,396	144	171	(4)
KIRIBATI	-	-	32	40	3	2	
KOREA	-	-	1,531	1,343	10	228	(5)
MARSHALL ISLANDS	-	-	140	125	258	178	
NAURU	-	-	-	-	-	-	
NEW CALEDONIA	-	-	-	-	-	-	
NEW ZEALAND	-	-	137	247	73	96	(6)
NIUE	-	-	-	-	-	-	
PALAU	-	-	-	-	-	-	
PHILIPPINES	5,477	-	4,659	237	-	2	(7)
PNG	-	-	1,029	576	93	87	(8)
SAMOA	4	6	-	-	-	-	
SOLOMON ISLANDS	-	-	-	10	-	7	
TOKELAU	67	149	-	-	-	-	
TONGA	1	1	-	-	-	-	
TUVALU	-	-	-	-	-	-	
USA	342	396	507	448	480	618	(9)
VANUATU	23	7	316	129	256	116	
WALLIS AND FUTUNA	-	3	-	-	-	-	
<i>z Non-WCPFC CCM</i>	-	-	-	-	33	33	(10)
LIMIT ESTIMATE [CMM 2008-01]	12,523		13,266		2,326		

Table 2(b) - NOTES

Where not stated, the estimates of high seas effort have been determined using raised operational logsheet data held by the SPC, subject to interpretation of paragraph 6 and 7 of CMM 2008-01. 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 using the best information available to SPC-OFP.

1.	ECUADOR Values presented here are from Operational data provided to WCPFC. WCPFC8 agreed that the limit for Ecuador be based on high seas excluding the WCPFC/IATTC overlap area but the days presented here for these fleets INCLUDES the effort in the overlap area. Total days in Table 2(b) do not therefore reconcile with total high seas days in Table 2(a).
2.	EL SALVADOR Values presented here are from Operational data provided to WCPFC. WCPFC8 agreed that the limit for El Salvador be based on high seas excluding the WCPFC/IATTC overlap area but the days presented here for these fleets INCLUDES the effort in the overlap area. Total days in Table 2(b) do not therefore reconcile with total high seas days in Table 2(a).
3.	EU-SPAIN Operational data are now available and used to produce these estimates.
4.	INDONESIA WCPFC (SPC-OFP) does not have any operational catch/effort data for the Indonesia domestic purse seine fleet to determine the extent of activities by area, so the following methods have been used in the absence of the data. 1. National waters For 2004, the average CPUE (SKJ+YFT+BET)/days = 24 MT/day in the tropical waters of the WCPFC Convention Area. Applying this to the total purse seine catch estimates for domestic Indonesia purse seine fishery in 2004 (164,721 mt) gives 6,363 days (after subtracting an arbitrary estimate of 500 days for activities on the high seas – see below). For 2003-2006, the average CPUE (SKJ+YFT+BET)/days = 26.5 MT/day in the tropical waters of the WCPFC Convention Area. Applying this to the annual average purse seine catch estimate for domestic Indonesia purse seine fishery for 2003-2006 (170,243 mt) gives 5,924 days (after subtracting an arbitrary estimate of 500 days for activities on the high seas – see below). 2. High seas WCPFC (SPC-OFP) doesn't have any effort data for the Indonesia domestic purse seine fleet but presumably they fish in the high seas enclave between FSM, PNG, Palau and Indonesia. If this effort is assumed to be similar to the effort of the Philippines fleet based in PNG, a value of 500 days could possibly be attributed to fishing in the high seas by the Indonesian fleet.

5.	<p>JAPAN</p> <p>Complete operational logsheet data provided to the Commission on 16th April 2009 in relation to CMM 2008-01. These data represent 100% coverage and therefore a better source of data to estimate high seas effort, so the estimates have been revised compared to information presented to WCPFC5.</p>
6.	<p>KOREA</p> <p>[12 Sep 2008] Advice from Korea Indicates that average fishing days from 2001 to 2004 are 1,571 days and fishing days in 2004 are 1,531 days. Yet to be reconciled since the source of EEZ coordinates used to estimate high seas days is unknown. Also we are not sure of their definition of "DAY". SPC estimates 1,234 days for 2004 and 1,230 as the average for 2001-2004.</p>
7.	<p>NEW ZEALAND</p> <p>The New Zealand purse seine fleet are covered by the reference in footnote 2 in paragraph 10 of CMM2008-01, and the days in Table 2 of CMM 2008-01. Using this footnote, New Zealand can use the days from 2003, which is 343 days – 247 days in high seas pockets 1&2 and 96 days in the remaining high seas areas.</p>
8.	<p>PHILIPPINES</p> <p>According to logsheet data provided to the WCPFC by the Philippines, the total high seas effort by the Philippines domestic and PNG-based fleets (as at August 2010) amounts to 5,647 days. The effort in national waters for 2004 according to the logsheet data are 1,075 days. However, the logsheet data have not been verified and do not represent 100% coverage and information to raise these data is currently not available.</p> <p>The estimate of high seas effort by the domestic Philippines purse seine fleet for 2004 provided by the Philippines was 4,659 days. The estimate for effort in national waters provided by the Philippines is 5,477 days. These estimates differ from what are determined from the unraised, logsheet data but have been retained in Table 2(b) as the best available estimates.</p> <p>Estimates of high seas effort for the domestic Philippines purse seine fleet for years other than 2004 have not been provided by the Philippines as yet.</p>
9.	<p>PNG</p> <p>[20 Aug 2009] PNG provided revised purse-seine catch estimates for 2004–2007 in their 2008 provision of data to the WCPFC, which resulted in a change in the estimated purse seine effort.</p>
10.	<p>USA</p> <p>[13 Sep 2008] USA has provided a value of 1,066 days as the average for 2001-2004, but only 1,038 days have been determined using the data available to the WCPFC (SPC-OFP). The WCPFC (SPC-OFP) are currently working with US-NMFS to review the respective EEZ coordinates used in the process of determining high seas days.</p>

	<p>Effort limits cannot be applied to vessels operating under the US Multilateral purse-seine Treaty when in the national waters of Pacific Island countries, which is referenced in paragraphs 6 and 7 of CMM 2008-01.</p>
<p>11.</p>	<p>Other Non-WCPFC CCM</p> <p>This entity relates to fleets based in the Eastern Pacific Ocean or IATTC-member country fleets providing data to IATTC, but excluding fleets for which the WCPFC already hold operational data (e.g. Vanuatu, El Salvador, Ecuador, Spain and the USA) .</p> <p>Other fleets that may support purse seine effort on WCPO tuna stocks may include Malaysia and Vietnam but data are not available to include consideration of this possible effort here.</p> <p>1. Days in national waters within the WCPFC Convention Area.</p> <p>For 2001-2004, none of these fleets were licensed to fish in national waters according to information currently available, so no fishing activity by non-WCPFC CCM fleets has been attributed to national waters. (0 days)</p> <p>For 2003-2006, none of these fleets were licensed to fish in national waters according to information currently available, so no fishing activity by non-WCPFC CCM fleets has been attributed to national waters. (0 days)</p> <p>2. High Seas</p> <p>From IATTC data, after removing El Salvador, Ecuador, Spain and Vanuatu fleet effort (which are already counted), the effort in 2004 for these fleets fishing in the WCPFC Convention Area was the same as the average effort for 2001-2004. For 2001-2004, the number of days effort in the WCPFC Convention Area was 33 days, according to aggregate data provided by IATTC data. (33 days).</p> <p>For 2003-2006, the number of days effort in the WCPFC Convention Area was 21 days, according to best available operational and aggregate data provided by IATTC data.</p>

Table 3. Reported longline catches (metric tonnes) of bigeye tuna in the WCPFC-CA, by flag.

CCM	2001	2002	2003	2004	Av. 2001-2004	CMM 2008-01 Attach. F	CMM 2008-01 (Curr.)	2005	2006	2007	2008	2009	2010	2011	2012	2012 (excl. SIDs)	CMM 2012-01 limits	See Notes
AMERICAN SAMOA	75	196	242	227	185	185		134	181	218	132	249	487	1,269	1,505			(4)
AUSTRALIA	1,307	1,002	1,024	892	1,056	1,056	2,000	791	499	1,008	1,027	726	458	379	482	482	2,000	(10)
BELIZE	1,322	812	782	297	803	803	803	425	254	158	89	43	89	102	132	132	803	(12)
CHINA	2,227	2,312	8,965	11,748	6,313	9,314	11,748	7,520	13,378	10,535	10,798	15,289	13,924	11,139	11,324	11,324	10,573	(6), (9), (15), (16)
COOK ISLANDS	1	56	204	394	164	164		220	166	238	292	217	192	394	333			(4)
EUROPEAN COMMUNITY	0	0	0	42	11	11	2,000	17	62	62	77	46	15	10	23	23	2,000	(10)
FSM	651	759	656	542	652	652		182	172	1,395	970	1,395	899	1,269	948			(4)
FIJI	662	853	889	1,254	915	915		721	771	556	671	768	539	604	1,588			(4)
FRENCH POLYNESIA	745	649	439	502	584	584		606	498	478	490	587	436	607	654			(4)
INDONESIA	942	1,470	2,168	2,192	1,693	8,413	2,192	2,202	3,011	1,993	3,579	4,000	1,221	1,699	3,681	3,681	5,889	(6), (11), (19)
JAPAN	27,466	29,574	26,110	29,248	28,100	28,100	28,100	23,021	25,685	26,076	19,593	16,880	15,927	16,616	12,259	12,259	19,670	
KIRIBATI	0	0	1	0	0	0		0	0	0	44	0	3	70	451			(4)
MARSHALL ISLANDS	0	0	0	1	0	0		0	0	3	375	381	257	259	335			(4)
NAURU	6	3	10	0	5	5		0	0	0	0	0	0	0	0			(4)
NEW CALEDONIA	128	189	142	90	137	137		76	35	53	63	51	44	41	49			(4)
NEW ZEALAND	481	201	204	177	266	266	2,000	175	177	213	133	253	132	174	154	154	2,000	(10)
NIUE	0	0	0	0	0	0		10	22	35	51	10	4	0	0			(4)
PALAU	21	1	1	7	8	8		0	0	0	0	0	0	0	0			(4)
PAPUA NEW GUINEA	240	318	390	399	337	335		237	216	111	201	128	39	59	119			(4)
PHILIPPINES	59	59	59	59	59	343	2,000	59	59	59	59	59	59	0	0	0	2,000	(8), (10)
PORTUGAL	0	0	0	0	0	0	2,000	0	0	0	0	0	0	3	17	17	2,000	
REPUBLIC OF KOREA	22,172	28,533	17,151	17,941	21,449	21,499	21,449	15,622	12,489	10,054	17,001	15,231	13,914	15,282	18,823	18,823	15,014	(16)
SAMOA	185	137	110	104	134	134		64	128	101	106	117	108	71	54			(4)
SENEGAL	0	0	0	0	0	0		0	3	2	0	0	0	0	0	0		(13)
SOLOMON ISLANDS	187	401	385	294	317	476		3	0	0	0	0	481	481	0			(4), (16)
TONGA	191	215	94	40	135	135		125	117	129	81	38	24	18	10			(4)
TUVALU	0	0	0	0	0	135		0	0	0	0	0	0	105	1,408			(4)
CHINESE TAIPEI	12,435	16,645	14,429	20,992	16,125	15,854	16,125	15,498	14,295	14,760	15,229	13,319	11,552	11,275	10,994	10,994	11,288	(16)
USA	2,418	4,396	3,618	4,181	3,653	4,181	4,181	4,462	4,381	5,381	4,649	3,741	3,577	3,565	3,654	3,654	3,763	(6), (17)
VANUATU	17	396	841	2,041	824	779		1,750	1,783	2,122	1,080	1,383	2,060	2,060	2,151			(4)
WALLIS AND FUTUNA	0	0	0	0	0	137		0	0	0	0	0	0	6	0			(4)
Total	73,938	89,177	78,914	93,664	83,923	94,621	94,598	73,920	78,382	75,740	76,790	74,911	66,441	67,557	71,148	61,543	77,000	
VIETNAM	1,450	614	2,129	2,781				3,527	3,538	3,648	3,358	2,992	2,441	3,424	3,761			(14)

TABLE 3 -- Notes:

1. Source: WCFPC Annual catch estimates as at 17th July 2013 (2012 data are provisional).
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 labeled "CMM 2008-01 - 2010 limits" and "CMM 2012-01 limits" do not apply to small island developing State members and participating Territories according to paragraph 34 of CMM 2008-01 and CMM 2012-01.
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 2 of CMM 2008-01 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. The year 2004 shall apply to China, the United States and Indonesia. (CMM 2008-01 Footnote 3).
7. Attachment F in the CMM 2008-01 (BASELINE LONGLINE BIGEYE TUNA CATCHES, BY FLAG) represents the bigeye catch estimates available at the time of establishing CMM 2008-01.
8. Estimates include archipelagic water catches which for some countries cannot be separated at this stage (e.g. Philippines).
9. For China, Para 36 overrides the reduction in catches listed in Para 33 in regards to 2009 and 2010 limits.
10. The catch limits established at 2,000t prior to 2010, remain at the level of 2,000t. (according to CMM 2008-01 Para. 32)
11. The catch limits reduced by 20% for 2010 that fall below 2,000t. are to be set at 2,000t. (Para. 38)
12. The catch limit set for Belize prior to 2009 is retained for 2009, according to WCFPC6 Report (Para. 27)
13. Senegal committed to limiting its fishing activities in the WCPF Convention Area to one longline vessel - WCFPC5 Report (Para. 44)
14. The Vietnam longline fleet are understood to fish outside the WCFPC Convention Area (South China Sea).
15. Catches by the Chinese longline fleet in the Kiribati EEZ are included in the estimates.
16. Catches by chartered Chinese, Korean and Chinese-Taipei longline vessels licensed to fish in Solomon Islands waters have been attributed to the Solomon Islands for 2010 and 2011.
17. Para 35 applies to the US so the limit for 2010 will be a 10% reduction of the 2004 baseline catch in Attachment F.
18. Does not yet cover development of new fisheries in the waters of small-island developing states (e.g. Tokelau)
19. Indonesia bigeye tuna catch excludes catches in Archipelagic waters.
20. Korea and Chinese Taipei will voluntarily restrict its catch level at 2% less than the catch limits specified here in 2013.

Table 4. Estimates of total annual catches (metric tonnes) of bigeye tuna in the WCPFC Statistical Area for fisheries other than longline and tropical purse seine.

GEAR	FLAG	BIGEYE													
		2001	2002	2003	2004	Av. 2001-2004	CMM 2008-01	2005	2006	2007	2008	2009	2010	2011	2012
Gillnet	Japan	3	12	11	5	8	2,000	6	11	3	13	7	2	2	2
	Vietnam	332	353	351	473	377	2,000	673	675	696	641	708	646	606	363
Handline	Indonesia	10	16	24	24	19	2,000	28	28	23	35	33	34	68	290
	Philippines (large-fish)	349	336	472	263	355	355	670	555	521	637	330	284	225	508
	Philippines (small-fish)	3,659	3,876	3,894	3,870	3,825	3,870	2,100	2,100	2,100	2,100	2,929	1,400	600	1,000
	USA	0	0	176	232	102	2,000	210	247	324	148	136	340	296	310
	Total	4,018	4,228	4,566	4,389	4,300	8,225	3,008	2,930	2,968	2,920	3,428	2,058	1,189	2,108
Pole-and-line	Fiji	0	0	0	0	0		0	0	0	0	0	0	0	0
	French Polynesia	0	0	0	0	0		0	0	0	0	0	0	0	0
	Indonesia	624	975	1,438	1,454	1,123	2,000	1,606	1,673	1,250	1,855	2,515	1,014	787	1,532
	Japan	1,377	1,757	857	3,393	1,846	3,393	1,334	3,820	1,977	1,604	1,580	2,374	2,224	1,428
	Kiribati	0	0	0	0	0		0	0	0	0	8	8	8	0
	Solomon Islands	0	0	0	0	0		0	0	37	0	0	0	0	0
	USA	0	0	0	0	0	2,000	0	0	0	0	0	0	0	0
	Total	2,001	2,732	2,295	4,847	2,969	7,393	2,940	5,493	3,264	3,459	4,103	3,396	3,019	2,960
Ring-net	Philippines	285	37	385	311	255	2,000	336	823	713	322	291	218	579	655
Purse seine	Japan	805	967	1,348	1,114	1,059	2,000	542	1,141	1,971	400	339	354	423	449
Troll	Japan	182	126	105	83	124	2,000	135	101	124	138	115	157	141	141
	Nauru	0	0	0	0	0		0	0	0	0	0	0	0	0
	Tokelau	0	1	0	0	0		0	0	0	0	1	0	0	0
	Tuvalu	0	0	0	0	0		0	0	0	0	0	0	0	0
	USA	226	586	37	149	250	2,000	85	56	63	74	59	118	110	170
	Total	408	713	142	232	374	4,000	220	157	187	212	175	275	251	311
Unclassified	Australia	0	0	12	23	9	2,000	3	8	21	0	0	0	20	8
	French Polynesia	1	2	2	2	2		0	0	0	0	0	0	0	0
	Indonesia	13	21	31	31	24	2,000	10	11	81	16	144	110	444	2,749
	Japan	26	23	26	21	24	2,000	100	39	65	80	98	86	141	141
	Kiribati	0	0	0	0	0		0	0	0	0	0	0	0	0
	New Zealand	0	1	1	8	3	2,000	1	1	0	1	0	0	0	0
	Niue	0	0	0	0	0		0	0	0	0	0	0	0	0
	Philippines	117	140	190	174	155	2,000	167	184	213	15	15	365	1	43
Total	157	187	262	259	216	10,000	281	243	380	112	257	561	606	2,941	
Total "other fisheries"		8,009	9,229	9,360	11,630	9,557	37,618	8,006	11,473	10,182	8,079	9,308	7,510	6,675	9,789
Percentage of total WCPFC-CA		6	5	7	6			5	7	7	5	6	5	4	6
WCPFC Bigeye Catch		143,171	168,869	139,243	183,355			152,301	161,980	145,479	156,014	159,467	140,843	159,810	161,679

TABLE 4 -- Notes:

1. Source: WCFPC Annual catch estimates as at 17th July 2013 (2012 data are provisional).
2. Catch estimates in **red** have been carried over from previous years.
3. French Polynesia 'pole-and-line' catches include the *bonitier* and *poti marara* fleets; both use various gear types (pole-and-line, troll, handline, harpoon, gill net).
4. Japan purse seine is north of 20°N.
5. Reference to the level of "*less than 2,000 tonnes*" mentioned in CMM-2008-01 paragraph 39 has been assumed to mean that fisheries taking less than 2,000 t. of bigeye should not exceed 2,000 t. of bigeye.
6. Indonesia and Philippines have recently revised their estimates (see the respective Annual Catch Estimate Workshop reports held during 2010, 2011 and 2012 at (<http://www.wcpfc.int/west-pacific-east-asia-oceanic-fisheries-management-project>))
7. A certain component of the Philippines catches listed in this table occur in Archipelagic Waters , but can not be separated from total Conventional Area Annual Catch Estimates at this stage.
8. The limits in the column labeled "CMM 2008-01" do not apply to small island developing State members and participating Territories according to paragraph 34 of CMM 2008-01.
9. The provision of estimates of fishing effort for 2009, 2010 and 2011, according of Para. 39 of CMM 2008-01, is only available for Japan purse-seine fishery at this stage.
10. Indonesia yellowfin tuna catch excludes catches in Archipelagic waters.

Table 5. Estimates of total annual catches (metric tonnes) of yellowfin tuna in the WCPFC Statistical Area for fisheries other than longline and tropical purse seine.

GEAR	FLAG	YELLOWFIN													
		2001	2002	2003	2004	Av. 2001-2004	CMM 2008-01	2005	2006	2007	2008	2009	2010	2011	2012
Gillnet	Japan	20	32	21	10	21	2,000	13	13	16	23	12	22	22	22
	Vietnam	549	585	581	784	625	2,000	982	985	1,016	935	1,033	942	884	1,024
Handline	Indonesia	513	800	1,180	1,194	922	2,000	1,393	1,384	1,147	1,097	3,256	1,651	1,658	3,359
	Philippines (large-fish)	8,914	9,943	12,540	13,099	11,124	13,099	12,990	14,498	16,853	15,712	7,768	11,314	10,577	14,449
	Philippines (small-fish)	38,904	41,173	41,375	41,137	40,647	41,137	35,000	35,000	35,000	35,000	43,172	43,400	13,000	8,400
	USA	0	0	362	379	185	2,000	321	209	254	227	317	265	357	405
	Total	48,331	51,916	55,457	55,809	52,878	58,236	49,704	51,091	53,254	52,036	54,513	56,630	25,592	26,613
Pole-and-line	Fiji	44	44	44	44	44		44	44	44	44	0	0	0	0
	French Polynesia	84	99	77	142	101		104	126	152	83	77	53	76	100
	Indonesia	2,355	3,675	5,421	5,482	4,233	5,482	6,581	5,166	5,332	4,590	6,045	3,381	6,983	1,277
	Japan	3,136	3,375	2,868	3,040	3,105	3,105	3,647	4,340	3,501	3,566	5,059	4,567	4,366	2,951
	Kiribati	0	0	0	0	0		0	0	0	0	10	10	10	0
	Solomon Islands	153	405	669	257	371		538	734	321	189	0	0	149	2,133
	USA	2	2	33	17	14	2,000	68	3	23	23	17	0	0	0
Total	5,774	7,600	9,112	8,982	7,867	10,587	10,982	10,413	9,373	8,495	11,208	8,011	11,584	6,461	
Ring-net	Philippines	2,727	1,995	3,866	4,560	3,287	4,560	5,979	6,175	6,652	8,421	7,347	5,363	5,677	5,590
Purse seine	Japan	2,564	2,300	3,619	2,706	2,797	2,797	3,128	3,235	1,766	4,696	2,577	1,473	2,837	3,667
Troll	Japan	2,840	2,524	2,683	2,294	2,585	2,585	2,094	2,262	2,297	2,436	2,534	3,167	2,497	2,497
	Nauru	0	0	0	0			0	0	0	2	4	4	4	4
	Tokelau	0	2	1	1			1	2	2	2	3	0	0	106
	Tuvalu	0	0	0	0			11	3	9	10	12	12	797	895
	USA	832	600	373	367	543	2,000	358	295	501	444	470	427	496	697
	Total	3,672	3,126	3,057	2,662	3,128	4,585	2,464	2,562	2,809	2,894	3,023	3,610	3,794	4,199
Unclassified	Australia	2	1	5	11	5	2,000	1	3	2	0	0	0	12	5
	French Polynesia	264	307	211	412	299		288	419	370	409	400	503	482	619
	Indonesia	473	738	1,088	1,100	850	2,000	1,142	1,240	1,209	1,245	5,187	3,951	6,000	25,431
	Japan	277	285	360	290	303	2,000	325	281	348	519	421	546	456	456
	Kiribati	250	2,050	1,120	1,120	1,135		1,120	1,120	4,347	4,329	4,529	4,529	4,529	4,529
	New Zealand	8	1	1	22	8	2,000	3	0	0	2	0	0	0	0
	Niue	0	0	0	4	1		2	1	0	0	0	0	0	0
	Philippines	1,236	1,420	1,798	1,849	1,576	2,000	1,775	1,956	2,257	1,327	1,327	1,500	721	1,247
	Total	2,510	4,802	4,583	4,808	4,176	10,000	4,656	5,020	8,533	7,831	11,864	11,029	12,200	32,287
Total "other fisheries"	66,147	72,356	80,296	80,321	74,779	94,765	77,908	79,494	83,419	85,331	91,577	87,080	62,590	79,863	
Percentage of total WCPFC-CA	13	15	15	16			14	16	17	15	17	16	12	12	
WCPFC Yellowfin Catch	498,716	468,861	521,420	515,489			549,501	498,452	503,989	581,948	532,941	546,812	521,448	655,668	

TABLE 5 -- Notes:

1. Source: WCFPC Annual catch estimates as at 17th July 2013 (2012 data are provisional).
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. The limits in the column labeled "CMM 2008-01" do not apply to small island developing State members and participating Territories according to paragraph 34 of CMM 2008-01.
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 2008-01 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. Reference to the level of "*less than 2,000 tonnes*" mentioned in CMM-2008-01 paragraph 32 has been assumed to mean that fisheries taking less than 2,000 t. of yellowfin should not exceed 2,000 t. of yellowfin.
7. Unclassified Indonesian catches of yellowfin in 2004 are considerably reduced because these catches were attributed to other gear types, mainly purse seine. This may suggest that unclassified catches prior to 2004 also contain large components by purse seine.
8. French Polynesia 'pole-and-line' catches include the *bonitier* and *poti marara* fleets; both use various gear types (pole-and-line, troll, handline, harpoon, gill net).
9. Japan purse seine is north of 20°N.
10. A certain component of the Philippines catches listed in this table occur in Archipelagic Waters , but can not be separated from total Conventional Area Annual Catch Estimates at this stage.
11. The provision of estimates of fishing effort for 2009, 2010 and 2011, according of Para. 39 of CMM 2008-01, is only available for Japan purse-seine fishery at this stage.
12. Indonesia yellowfin tuna catch excludes catches in Archipelagic waters.

Table 6. Reported longline catches (metric tonnes) of yellowfin tuna in the WCPFC-CA, by flag.

CCM	2001	2002	2003	2004	Av. 2001-2004	2005	2006	2007	2008	2009	2010	2011	2012	2012 (excl. SIDs)	CMM 2012-01 limits	See Notes
AMERICAN SAMOA	188	485	497	888	515	526	513	640	333	398	473	701	609			(4)
AUSTRALIA	2,819	3,531	3,681	2,356	3,097	1,499	1,830	1,390	1,650	1,387	1,359	1,858	1,150	1,150	3,097	
BELIZE	957	720	943	208	707	298	106	273	129	121	28	13	30	30	2,000	(7), (14)
CHINA	1,919	1,844	3,358	4,048	2,792	2,446	4,055	2,768	5,007	7,958	2,576	4,598	6,004	6,004	2,792	(10), (11)
COOK ISLANDS	1	42	178	506	182	413	262	290	247	197	319	925	386			(4)
EUROPEAN COMMUNITY	0	0	0	23	6	1	127	127	10	7	3	0	2	2	2,000	(14)
FSM	338	164	276	185	241	99	270	548	328	583	406	636	382			(4)
FIJI	2,082	2,027	2,482	4,164	2,689	2,591	2,231	1,721	2,763	3,440	2,602	2,516	3,188			(4)
FRENCH POLYNESIA	967	507	621	1,066	790	793	690	527	447	716	418	491	758			(4)
INDONESIA	4,001	6,243	9,209	9,313	7,192	10,762	9,482	10,371	12,689	18,221	14,041	13,750	11,656	11,656	7,192	(13)
JAPAN	18,096	15,810	16,803	15,209	16,480	14,792	13,462	13,725	11,820	13,622	16,951	10,902	9,231	9,231	16,480	
KIRIBATI	2	0	2	0	1	0	0	0	7	0	4	115	116			(4)
MARSHALL ISLANDS	0	0	0	3	1	0	0	2	91	120	117	99	113			(4)
NAURU	5	2	6	1	4	0	0	0	0	0	0	0	0			(4)
NEW CALEDONIA	570	572	754	631	632	448	414	393	424	487	505	585	573			(4)
NEW ZEALAND	131	27	39	36	58	36	3	25	11	3	6	3	1	6	2,000	(14)
NIUE	0	0	0	0	0	34	42	43	40	20	8	0	0			(4)
PALAU	41	3	19	28	23	0	0	0	0	0	0	0	0			(4)
PAPUA NEW GUINEA	1,812	1,738	1,747	2,318	1,904	1,222	2,139	1,539	2,259	2,714	2,147	2,303	2,961			(4)
PHILIPPINES	484	484	484	484	484	484	484	484	484	484	484	0	0	0	2,000	(6), (14)
PORTUGAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,000	(6), (14)
REPUBLIC OF KOREA	13,768	15,497	12,134	10,058	12,864	13,329	9,529	8,817	7,846	10,032	7,644	7,881	7,832	7,832	12,864	(11)
SAMOA	470	369	293	444	394	199	264	305	317	412	386	395	234			(4)
SENEGAL	0	0	0	0	0	6	3	4	0	0	0	0	0	0	2,000	(8), (14)
SOLOMON ISLANDS	159	401	258	440	315	6	0	0	0	0	3,834	3,834	0			(4), (11)
TONGA	259	263	263	163	237	219	227	341	291	109	47	171	140			(4)
TUVALU	0	0	0	0	0	0	0	0	0	0	0	286	453			(4)
CHINESE TAIPEI	22,326	21,993	22,149	22,975	22,361	19,571	18,654	16,668	16,411	19,693	19,974	21,320	16,958	16,958	22,361	(11)
USA	1,016	572	809	694	773	698	937	833	836	429	462	738	575	575	2,000	(14)
VANUATU	49	778	1,315	1,755	974	1,147	1,346	967	860	801	788	1,269	2,230			(4)
WALLIS AND FUTUNA	0	0	0	0	0	0	0	0	0	0	0	4	0			(4)
Total	72,460	74,072	78,320	77,996	75,712	71,619	67,070	62,801	65,300	81,954	75,582	75,393	65,582	53,444	78,785	
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			(9)

Notes:

1. Source: WCFPC Annual catch estimates as at 17th July 2013 (2012 data are provisional).
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. The limits in the column labeled "CMM 2008-01 - 2010 limits" do not apply to small island developing State members and participating Territories according to paragraph 6 of CMM 2008-01.
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 2 of CMM 2008-01 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 limit set for Belize prior to 2009 is retained for 2009, according to WCFPC6 Report (Para. 27)
8. Senegal committed to limiting its fishing activities in the WCPF Convention Area to one longline vessel - WCFPC5 Report (Para. 44)
9. The Vietnam longline fleet are understood to fish outside the WCFPC 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, Korean and Chinese-Taipei longline vessels licensed to fish in Solomon Islands waters have been attributed to the Solomon Islands for 2010 and 2011.
12. Does not yet cover development of new fisheries in the waters of small-island developing states (e.g. Tokelau)
13. Indonesia yellowfin tuna catch excludes catches in Archipelagic waters.
14. Reference to the level of "*less than 2,000 tonnes*" mentioned in CMM-2008-01 paragraph 32 has been interpreted to mean that fisheries taking less than 2,000 t. of yellowfin should not exceed 2,000 t. of yellowfin.

Table 7. Purse seine effort in the tropical WCPFC Convention Area (20°N-20°S), 2010–2012, by EEZ/High seas areas

	TROPICAL PURSE SEINE EFFORT								
	2010			2011			2012		
	FAD SETS	TOTAL DAYS	FAD sets / Day	FAD SETS	TOTAL DAYS	FAD sets / Day	FAD SETS	TOTAL DAYS	FAD sets / Day
All EEZs, excluding Archipelagic waters	10,301	44,306	0.23	17,766	48,076	0.37	16,817	42,774	0.39
Archipelagic waters	2,102	5,728	0.37	3,198	8,183	0.39	2,748	8,107	0.34
All High seas areas	639	1,813	0.35	695	1,539	0.45	735	2,313	0.32
Total	13,042	51,847	0.25	21,659	57,798	0.37	20,300	53,194	0.38

Notes

1. Excludes the Philippines, Indonesian and Vietnam domestic fisheries
2. 2012 data are provisional
3. The breakdown of Effort (sets) by Archipelagic waters requires operational data which have NOT been provided for several key fleets. As a consequence, these estimates should be considered as provisional until such time as complete operational data have been provided for ALL fleets.

Table 8. Longline annual EFFORT estimates in the WCPFC Convention Area by Fleet, 2000-2012

Fleet	ANNUAL EFFORT ESTIMATE (1,000s of hooks set)												
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
AU	10,247	12,738	13,562	15,584	12,322	10,976	9,698	8,454	8,039	8,778	7,789	6,561	6,586
BZ	527	1,613	9,267	10,543	4,455	7,087	3,281	1,686	910	521	1,461	819	769
CK	0	26	1,548	5,856	8,428	8,161	8,795	7,529	6,880	7,270	7,066	8,945	9,196
CN	35,086	22,320	25,595	63,538	64,443	47,369	78,767	74,586	97,990	126,360	117,642	119,973	195,601
ES	0	0	0	0	882	1,423	3,255	4,667	3,120	1,690	1,127	1,124	1,111
FJ	21,438	28,840	32,865	39,312	52,313	44,988	42,661	30,644	40,454	47,243	40,723	67,709	67,591
FM	7,146	4,928	6,053	5,149	5,726	2,304	2,243	10,921	6,329	8,083	7,630	7,891	6,885
ID	16,320	20,918	41,007	55,835	56,299	65,832	87,967	114,086	115,568	175,905	153,640	165,477	252,655
JP	143,370	130,505	123,563	122,659	120,164	106,578	101,999	104,510	79,948	68,147	83,224	76,541	70,649
JP/CS	560,496	419,276	174,969	241,229	507,547	440,859	456,840	641,525	294,177	528,705	338,469	218,541	262,294
KI	0	0	0	272	24	0	0	0	326	0	0	1,352	4,624
KR	105,115	102,469	135,055	121,466	92,069	112,528	65,615	58,495	90,610	73,825	73,896	86,154	82,141
MH	0	0	0	0	38	0	0	30	2,427	2,055	1,623	1,651	873
NC	5,664	4,931	4,647	6,480	6,156	5,114	3,700	4,489	5,170	5,086	4,828	4,739	4,894
NR	0	0	0	0	0	0	0	0	0	0	0	0	0
NU	0	0	0	0	0	271	690	775	981	688	28	0	0
NZ	7,793	9,845	10,772	10,044	6,808	3,841	3,690	4,007	2,255	3,184	2,987	3,154	3,058
PF	12,411	13,338	13,943	18,339	23,610	20,715	19,495	18,631	19,322	17,372	17,274	18,673	16,850
PG	4,097	5,902	5,960	6,662	8,962	8,426	7,676	7,034	6,077	6,436	6,574	8,214	11,098
PH	2,311	2,298	2,980	2,718	2,637	1,865	2,244	2,729	2,393	3,006	3,214	592	124
PT	0	0	0	0	0	0	0	0	0	0	0	0	0
PW	776	316	0	0	176	0	0	0	0	0	0	0	0
SB	0	0	0	0	0	0	0	0	0	0	0	166	1,780
SN	0	0	0	0	0	0	227	278	0	0	0	0	0
TO	3,563	4,403	6,223	5,493	2,589	4,026	4,038	3,754	2,414	1,148	754	986	267
TV	0	0	0	0	0	7	0	0	0	0	0	2,091	6,474
TW/DW	66,199	69,958	92,063	88,917	116,167	79,125	54,993	53,162	44,636	46,192	51,335	54,980	53,566
TW/OD	58,474	198,902	101,963	80,539	67,490	77,490	84,908	159,199	164,095	174,102	124,293	160,817	146,915
TW/OS	43,059	67,277	85,512	59,499	51,002	41,207	67,419	70,088	60,774	86,495	67,933	99,927	84,050
US/AS	1,379	5,982	14,013	14,526	10,885	10,978	13,704	17,495	14,242	15,397	14,578	18,553	20,741
US/HW	20,458	22,385	27,516	30,143	30,543	31,871	34,399	36,592	34,408	32,812	26,611	26,723	29,567
VN	38,883	41,785	52,357	48,111	63,312	45,827	59,143	77,871	64,822	71,262	69,504	77,137	179,281
VU	1,071	1,924	21,904	23,232	43,601	38,013	39,138	35,401	27,932	31,503	38,555	32,429	49,464
WF	0	0	0	0	0	0	0	0	0	0	0	0	0
WS	438	5,260	7,475	8,027	5,405	3,843	5,000	7,366	6,945	7,486	8,600	6,176	6,933

NOTES

1. The unit of effort in the Longline fishery is an estimate of thousands of HOOKS, based on the best available AGGREGATE DATA.
2. 2012 data are provisional
3. The effort data presented here have been provided as aggregate data which may be independent to the Annual catch estimates presented in Table 8.
4. Effort for the Japanese Coastal, Indonesian domestic, Philippines domestic and Vietnam fleets have been estimated from annual catch estimates and average tuna CPUE for fleets fishing in the vicinity to where these fleets are based. These estimates should be considered as very provisional in the absence of aggregate data for these fleets.
5. Note that aggregate data are not available for some fleets so their effort cannot be represented here (e.g. Nauru, Portugal and Wallis and Futuna)
6. The estimates of EFFORT may not yet reflect the complete attribution of EFFORT for chartered vessels.

Table 9. Longline annual catch estimates in the WCPFC Convention Area by Fleet, 2000-2012

Fleet	ANNUAL TUNA CATCH ESTIMATES (metric ton)												
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
AU	2,945	4,717	5,086	5,195	3,915	3,033	4,920	4,323	3,954	3,636	2,562	2,890	2,204
BZ	270	7,143	3,385	2,697	921	1,036	631	595	225	190	127	220	194
CK	0	4	588	1,740	2,769	3,004	2,651	3,172	2,763	1,965	2,934	3,501	3,333
CN	6,244	6,857	7,076	18,546	21,900	14,069	24,624	18,756	30,897	43,396	29,525	27,733	42,154
ES	0	0	0	0	70	22	189	189	153	123	31	16	28
FJ	9,217	10,715	10,906	10,252	16,708	14,816	14,804	9,422	13,047	16,723	12,393	11,286	14,978
FM	1,395	992	923	933	727	281	442	1,943	1,298	2,018	1,354	1,927	1,374
ID	3,835	4,943	7,713	11,377	11,505	19,017	21,127	22,689	26,098	31,779	26,625	31,320	24,234
JP	55,104	48,458	44,576	35,201	38,148	32,180	31,510	32,721	26,580	24,927	27,029	22,639	22,015
JP/CS	32,165	29,070	27,419	31,096	27,251	30,108	31,939	32,783	25,791	30,115	29,846	29,616	23,874
KI	3	2	0	3	0	0	0	0	51	0	73	362	610
KR	37,695	38,615	48,445	31,750	29,162	32,870	23,068	20,304	26,328	26,871	22,895	23,833	27,919
MH	0	0	0	0	4	0	0	5	481	511	391	362	465
NC	1,662	1,718	1,926	2,007	2,189	2,114	1,807	1,770	1,993	2,187	2,488	2,362	2,337
NR	11	13	7	18	3	0	0	0	0	0	0	0	0
NU	0	0	0	0	0	99	277	294	428	184	109	0	0
NZ	1,863	3,226	2,773	3,214	1,461	813	676	595	526	678	598	595	421
PF	5,386	5,973	5,713	4,906	3,786	3,825	4,106	4,962	4,005	4,863	4,337	4,323	5,006
PG	1,190	2,176	2,198	2,994	4,398	3,715	4,166	3,248	2,924	3,748	3,069	2,667	3,891
PH	543	543	543	543	543	543	543	543	543	543	543	0	0
PT	0	0	0	0	0	0	0	0	0	0	0	7	18
PW	140	62	4	20	35	0	0	0	0	0	0	0	0
SB	1,145	400	923	738	941	9	0	0	0	0	13,706	13,706	0
SN	0	0	0	0	0	6	6	6	0	0	0	0	0
TO	1,157	1,718	1,667	968	385	627	758	860	592	271	128	223	170
TV	0	0	0	0	0	0	0	0	0	0	0	559	2,029
TW/DW	17,213	19,673	30,623	27,516	37,725	26,821	17,901	17,375	14,089	17,532	19,352	16,685	13,495
TW/OD	11,556	16,866	12,205	13,776	9,558	9,917	8,082	8,405	9,103	9,097	11,068	8,052	8,175
TW/OS	11,140	13,106	13,649	11,191	9,430	11,491	17,993	16,566	17,338	20,229	18,100	24,072	20,443
US/AS	733	3,496	6,632	4,670	3,577	3,596	4,772	6,041	4,015	4,532	4,936	4,574	5,384
US/HW	4,842	4,727	5,493	4,951	5,231	5,447	5,574	6,457	5,783	4,348	4,363	4,790	4,708
VN	9,265	9,753	10,381	10,319	13,918	14,438	14,484	14,934	13,748	12,249	11,958	14,015	16,232
VU	0	721	7,930	7,059	14,489	13,660	14,245	11,477	9,174	11,727	15,141	11,388	12,681
WF	0	0	0	0	0	0	0	0	0	0	0	13	0
WS	5,364	5,475	4,729	2,656	1,781	1,526	2,505	3,519	2,765	3,345	3,023	1,881	2,326

NOTES

1. The catch estimates presented here have been provided as Annual catch estimates which may be independent to the effort estimates (provide from aggregate data) presented in Table 8.
2. Catch represents the sum of albacore tuna, bigeye tuna and yellowfin tuna.

Table 10. Summarised catch and effort estimates by Year, Area and fleet combinations for tropical fisheries in the WCPFC Convention Area, 2000-2012

Category	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1. Catch of tropical tuna by purse seine fleets in their own EEZs	17,123	32,136	38,082	74,095	94,333	77,671	113,822	114,098	95,200	89,338	107,844	105,879	149,956
2. Catch of tropical tuna by FOREIGN purse seine fleets in EEZs	648,566	662,951	773,939	702,860	699,721	829,746	890,945	899,876	932,299	949,366	1,241,730	1,116,326	1,223,068
3. Effort (vessel days) by purse seine fleets in their own EEZ	765	1,633	1,596	2,696	3,054	3,240	3,375	3,406	3,275	3,347	3,662	4,889	5,509
4. Effort by FOREIGN purse seine fleets in EEZs	25,128	26,668	29,828	29,839	30,960	30,879	30,010	29,615	32,329	30,685	41,629	43,740	38,025
5. Bigeye tuna catch by longline fleets in their own EEZs	2,952	2,649	2,687	2,627	2,610	1,613	1,686	1,604	2,460	2,402	2,195	2,869	4,026
6. Bigeye tuna catch by FOREIGN Longline fleets in EEZs	20,664	22,721	20,647	18,533	18,334	17,878	20,688	21,954	18,399	17,245	14,693	20,015	20,204
7. Effort by longline fleets in the their own EEZs	73,383	50,001	56,319	65,240	64,219	53,153	55,173	59,784	60,159	55,461	94,655	115,944	82,545
8. Effort by FOREIGN longline fleets in EEZs	179,370	219,954	217,755	257,864	220,767	210,618	236,312	242,920	249,984	276,607	302,032	337,420	377,388
9. Bigeye tuna catch by longline fleets in the high seas and non-PICT EEZs	43,161	37,524	54,813	40,224	56,531	39,672	42,665	39,185	34,466	34,673	30,459	27,520	27,162
10. Effort by longline fleets in the high seas and non-PICT EEZs	131,571	175,972	243,104	156,727	164,515	151,938	114,836	143,371	123,123	157,314	45,509	65,697	71,593

NOTES

1. Covers the WCPFC Convention area, 20N-20S.
2. EEZs represent the Pacific Island countries (PICs) EEZs within the WCPFC Convention Area, 20N-20S
3. Excludes Archipelagic waters catches. Fleets from Indonesia, Papua New Guinea, Philippines (distant-water), Philippines (domestic) and Solomon Islands in this list are normally the only fleets active in archipelagic waters.
4. Excludes catch/effort from the Philippines, Indonesian and Vietnam domestic fleets
5. The unit of effort in the Longline fishery is an estimate of thousands of HOOKS.
6. The breakdown of annual catch and effort by EEZ requires operational data, or the provision of Annual catch and effort estimates by EEZ/high seas areas, neither of which have been provided for several key fleets. As a consequence, these estimates should be considered as very provisional until such time as complete operational data and/or annual catch estimates by EEZ have been provided for **ALL** fleets.
7. Total catch for the purse seine gear covers skipjack tuna, yellowfin tuna and bigeye tuna.

Table 11. Estimated FAD sets undertaken in the tropical purse seine fishery of the WCPFC Convention Area (20°N-20°S), by flag, 2001-2012.

2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	CCM	For non-SIDs				For SIDs only			
													(A) Average (2001- 2011)	CMM 2012-01 -- ATTACH. A	CMM 2012-01 para 11 (A)*8/12	CMM 2012-01 Limit	(B) Average (2009- 2011)	CMM 2012-01 -- ATTACH. A	CMM 2012-01 para 11 (B)*8/9	CMM 2012-01 Limit
15	139	161	513	860	924	826	1,182	1,547	688	2,002	1,126	CHINA	805	560	537	4th month				
							96	393	127	156	425	ECUADOR	239	169	160	4th month				
10	30	1					53	151	162	137	185	EL SALVADOR	91	61	61	4th month				
325	383	491	790	497	282	338	481	734	431	793	814	FEDERATED STATES OF MICRONESIA	504				653	606	580	580
												INDONESIA								
2,321	2,020	2,263	3,163	2,402	2,612	2,475	2,633	2,565	829	1,320	1,618	JAPAN	2,237	1,477	1,491	1,491				
72	62	63	97	104	66	61	68	232	221	548	495	KIRIBATI	145				334	301	297	297
392	579	877	1,064	934	743	889	459	618	632	1,558	1,280	MARSHALL ISLANDS	795				936	812	832	4th month
136	398	438	574	196	488	419	440	387	190	185	145	NEW ZEALAND	350	240	233	4th month				
843	1,252	1,034	2,671	2,018	1,932	1,416	1,286	1,751	1,066	1,710	2,392	PAPUA NEW GUINEA	1,544				1,509	2,906	1,341	4th month
882	1,007	1,240	1,197	1,131	851	249	537	551	361	190	416	PHILIPPINES (distant-water)	745	681	497	4th month				
												PHILIPPINES (domestic)								
552	1,186	711	2,520	889	2,306	1,865	1,937	2,175	1,085	2,112	1,239	REPUBLIC OF KOREA	1,576	1,080	1,051	4th month				
152	118	100	92	110	254	189	301	533	186	150	153	SOLOMON ISLANDS	199				290	490	257	4th month
56	62	106	143	77	204	420	614	508	506	487	459	SPAIN	289	141	193	4th month				
1,608	2,649	1,904	3,288	2,733	3,080	2,783	2,241	2,740	1,835	2,970	3,032	CHINESE TAIPEI	2,530	1,694	1,687	4th month				
							29	40	55	73		TUVALU	41				41	37	37	4th month
2,018	1,763	1,565	2,070	1,326	1,543	1,393	2,764	3,751	2,385	3,378	3,421	UNITED STATES OF AMERICA	2,178	1,464	1,452	4th month				
36	139	181	655	528	476	579	227	385	192	393	242	VANUATU	345				323	268	287	4th month
9,418	11,787	11,135	18,837	13,805	15,761	14,051	15,714	18,795	10,940	18,461	17,552		14,613	7,567	7,361		4,086			

Notes

1. Covers Drifting FAD, Log and Anchored FAD sets
2. Excludes archipelagic waters. Fleets from Indonesia, Papua New Guinea, Philippines (distant-water), Philippines (domestic) and Solomon Islands in this list are normally the only fleets active in archipelagic waters.
3. Includes high seas
4. Excludes Vietnam domestic fleet
5. Complete information from Indonesia and Philippines are not available.
6. "CMM 2012-01 – ATTACH. A" refers to the limits established at WCPFC9 included in the CMM 2012-01 ATTACHMENT A. These limits were established with data that INCLUDED effort in archipelagic waters.
7. "CMM 2012-01 limits" have been set according to CMM 2012-01 para 11. applied to the latest data available which EXCLUDE effort in the archipelagic waters. Differences with "CMM 2012-01 -- ATTACH. A" may also be due to new data receipts since WCPFC9.

Table 12. Estimated total tuna catch from FAD sets undertaken in the tropical purse seine fishery of the WCPFC Convention Area (20°N-20°S), by flag, 2001-2012.

CCM	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	Average
CHINA	147	4,889	8,024	16,260	33,710	35,053	35,825	39,883	55,916	24,603	62,239	35,790	29,362
ECUADOR	0	0	0	0	0	0	5,657	24,895	4,121	8,372	17,593	23,106	6,979
EL SALVADOR	599	1,393	74	0	0	0	3,514	9,896	8,757	6,798	12,141	10,629	4,483
FEDERATED STATES OF MICRONESIA	8,953	11,501	14,884	21,930	16,426	6,478	10,983	13,999	17,870	12,871	19,022	27,849	15,231
INDONESIA	12,222	19,074	28,135	28,451	34,004	33,460	31,409	27,438	36,615	32,586	32,986	33,597	29,165
JAPAN	110,506	104,393	87,411	127,101	108,939	121,644	115,241	113,533	118,814	35,660	50,411	71,907	97,130
KIRIBATI	3,200	1,917	2,350	3,279	5,303	2,546	2,325	2,284	13,847	16,350	34,441	25,252	9,425
MARSHALL ISLANDS	26,865	32,854	36,875	45,367	53,580	40,157	56,082	23,570	32,698	31,088	80,564	54,948	42,887
NEW ZEALAND	6,632	11,516	14,483	16,933	5,833	16,726	23,518	18,587	14,134	9,070	7,669	3,774	12,406
PAPUA NEW GUINEA	29,529	57,451	58,183	133,175	96,092	113,534	88,341	72,216	81,208	65,748	65,548	88,016	79,087
PHILIPPINES (distant-water)	20,699	25,539	27,214	30,633	23,238	23,923	7,597	14,352	16,501	13,081	9,324	11,549	18,638
PHILIPPINES (domestic)	18,224	20,222	25,600	26,288	26,874	29,613	34,181	38,815	29,556	18,752	10,237	10,667	24,086
REPUBLIC OF KOREA	24,183	60,529	26,698	102,265	40,223	119,440	105,564	95,426	131,774	69,940	97,036	67,322	78,367
SOLOMON ISLANDS	5,907	3,686	3,890	3,286	5,452	9,481	6,535	9,453	15,376	6,199	4,937	5,604	6,651
SPAIN	2,402	1,791	4,580	5,517	3,408	10,234	17,094	35,842	24,389	28,514	37,991	29,173	16,745
CHINESE TAIPEI	77,735	138,822	76,183	144,655	106,488	147,874	139,384	98,152	126,202	82,844	108,182	119,262	113,815
TUVALU	0	0	0	0	0	0	0	0	1,572	1,684	1,865	4,187	776
UNITED STATES OF AMERICA	64,150	49,497	44,319	56,524	52,652	61,548	71,591	119,610	174,875	112,281	144,831	135,725	90,634
VANUATU	2,847	13,492	11,546	39,437	38,456	34,985	36,997	13,173	24,840	11,420	16,844	11,109	21,262
Total	414,800	558,566	470,449	801,101	650,678	806,696	791,838	771,124	929,065	587,861	813,861	769,466	697,125

Notes

1. Covers Drifting FAD, Log and Anchored FAD sets
2. Excludes archipelagic waters. Fleets from Indonesia, Papua New Guinea, Philippines (distant-water), Philippines (domestic) and Solomon Islands in this list are normally the only fleets active in archipelagic waters.
3. Includes high seas
4. Excludes Vietnam domestic fleet
5. All tuna catch estimates for Indonesia and Philippines domestic fisheries are assumed to be from FAD sets. Archipelagic waters catches are excluded.

Table 13. Estimated total BIGEYE tuna catch from FAD sets undertaken in the tropical purse seine fishery of the WCPFC Convention Area (20°N-20°S), by flag, 2001-2012.

CCM	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	Average
CHINA	31	441	491	1,105	1,990	1,797	1,252	1,989	2,852	1,348	3,314	1,880	1,541
ECUADOR	0	0	0	0	0	0	1,455	3,311	717	1,517	2,919	5,035	1,246
EL SALVADOR	162	325	14	0	0	0	810	1,765	2,287	1,075	1,867	2,176	873
FEDERATED STATES OF MICRONESIA	1,123	1,195	1,080	1,798	1,283	419	493	846	1,085	899	1,310	1,763	1,108
INDONESIA	334	521	769	778	968	1,000	734	1,089	1,465	978	891	235	814
JAPAN	5,484	3,903	4,347	3,914	3,806	3,222	3,218	5,038	2,617	1,588	1,773	2,245	3,430
KIRIBATI	452	279	242	364	597	249	174	202	1,670	2,078	3,781	2,714	1,067
MARSHALL ISLANDS	3,790	4,445	4,233	5,696	6,395	4,029	4,317	2,116	2,951	2,998	7,741	5,014	4,477
NEW ZEALAND	707	1,196	1,176	1,382	465	1,154	1,079	1,003	664	475	441	190	828
PAPUA NEW GUINEA	2,550	5,069	3,624	9,665	5,887	6,279	3,091	3,071	3,462	3,687	3,607	4,615	4,551
PHILIPPINES (distant-water)	2,097	2,586	1,772	2,465	1,620	1,219	206	743	775	748	413	497	1,262
PHILIPPINES (domestic)	685	221	487	639	1,344	1,185	684	752	533	433	186	265	618
REPUBLIC OF KOREA	2,684	6,509	1,858	7,382	2,440	6,716	3,725	4,783	6,955	4,364	5,949	3,994	4,780
SOLOMON ISLANDS	388	223	112	130	138	157	18	148	149	93	77	52	140
SPAIN	661	366	1,111	1,016	742	1,879	3,555	5,903	3,712	4,878	7,254	5,380	3,038
CHINESE TAIPEI	10,620	16,658	7,031	13,720	9,177	11,332	8,262	7,211	9,365	6,736	9,127	9,638	9,906
TUVALU	0	0	0	0	0	0	0	0	186	200	216	530	94
UNITED STATES OF AMERICA	7,324	4,964	3,650	5,076	4,660	4,125	3,899	6,746	10,045	7,057	9,106	8,157	6,234
VANUATU	292	1,399	902	2,451	2,144	1,553	1,056	467	1,029	568	766	552	1,098
Total	39,384	50,300	32,899	57,581	43,656	46,315	38,028	47,183	52,519	41,720	60,738	54,932	47,105

Notes

1. Estimation methodology is preliminary
2. Covers Drifting FAD, Log and Anchored FAD sets
3. Excludes archipelagic waters. Fleets from Indonesia, Papua New Guinea, Philippines (distant-water), Philippines (domestic) and Solomon Islands in this list are normally the only fleets active in archipelagic waters.
4. Excludes high seas
5. Excludes Vietnam domestic fleet
6. All bigeye tuna catch estimates for Indonesia and Philippines domestic fisheries are assumed to be from FAD sets. Archipelagic waters catches are excluded.

Table 14. Number of associated (ASS) and unassociated (UNA) sets made in the WCPFC tropical purse seine fishery, 2000 – 2012.

YEAR	Tropical Purse seine EFFORT					
	Includes Arch. Waters			Excludes Arch. Waters		
	Unassociated	Associated	Others	Unassociated	Associated	Others
2000	14,016	12,160	595	13,840	10,748	571
2001	15,739	10,884	844	15,450	9,418	804
2002	16,577	13,254	662	16,555	11,787	655
2003	16,476	13,139	725	15,980	11,135	679
2004	10,962	20,793	579	10,822	18,837	483
2005	19,240	16,838	438	18,929	13,805	418
2006	15,143	17,904	299	14,763	15,761	262
2007	19,048	16,329	562	17,891	14,051	387
2008	22,058	18,276	476	20,669	15,714	309
2009	22,384	21,644	349	20,731	18,795	320
2010	37,572	13,042	596	35,884	10,940	503
2011	29,666	21,659	494	26,918	18,461	272
2012	34,667	20,300	546	30,632	17,552	341

Notes

1. Estimating the Effort (sets) excluding Archipelagic waters requires operational data which have not been provided for several key fleets. As a consequence, the estimates excluding archipelagic waters should be considered as provisional until such time as complete operational data have been provided for ALL fleets.
2. Covers the WCPFC Convention area between 20N-20S
3. Excludes the domestic fisheries of Indonesia, Philippines and Vietnam
4. "Associated" covers Drifting Logs, Drifting FADs and Anchored FADs only (excludes Live Whale and Live Whale shark associations)

Table 15. Total sets made in the WCPFC tropical purse seine fishery BY FLAG, 2010 – 2012.

2010	2011	2012		AVG 2010-2012	Reduction to 30%	Reduction to 35%
2,790	3,423	1,837	CHINA	2,683	805	
181	474	478	ECUADOR	378	113	
140	188	186	EL SALVADOR	171	51	
1,067	1,267	1,295	FSM	1,210		423
			INDONESIA			
6,552	7,306	6,511	JAPAN	6,790	2,037	
727	1,340	1,987	KIRIBATI	1,351		473
1,904	2,110	2,032	MARSHALL ISLANDS	2,015		705
580	350	429	NEW ZEALAND	453	136	
6,069	5,543	6,593	PAPUA NEW GUINEA	6,068		2,124
1,548	1,311	1,539	PHILIPPINES (distant-water)	1,466	440	
			PHILIPPINES (domestic)			
7,460	6,668	7,642	REPUBLIC OF KOREA	7,257	2,177	
249	195	171	SOLOMON ISLANDS	205		72
541	517	516	SPAIN	525	157	
7,908	7,645	7,455	CHINESE TAIPEI	7,669	2,301	
347	323	272	TUVALU	314		110
8,698	6,319	9,006	USA	8,008	2,402	
566	672	576	VANUATU	605		212
47,327	45,651	48,525		47,168	10,620	4,119

Notes

1. Estimating the Effort (sets) excluding Archipelagic waters requires operational data which have not been provided for several key fleets. As a consequence, the estimates excluding archipelagic waters should be considered as provisional until such time as complete operational data have been provided for ALL fleets.
2. Covers the WCPFC Convention area between 20N-20S
3. Excludes archipelagic waters. Fleets from Indonesia, Papua New Guinea, Philippines (distant-water), Philippines (domestic) and Solomon Islands in this list are normally the only fleets active in archipelagic waters.
4. Excludes the domestic fisheries of Indonesia, Philippines and Vietnam

Table 16. Annual tuna catch estimates (metric tonnes) by EEZ/high seas area and species in the tropical purse seine fishery of the WCPFC Convention Area

EEZ	2007			2008			2009			2010			2011			2012		
	SKJ	YFT	BET	SKJ	YFT	BET	SKJ	YFT	BET	SKJ	YFT	BET	SKJ	YFT	BET	SKJ	YFT	BET
American Samoa	0	0	0	103	18	6	150	28	7	131	1	1	234	30	10	1,252	166	49
Cook Islands	0	0	0	690	152	62	610	118	41	204	40	18	1,368	31	7	11,230	1,518	469
Fiji	87	72	6	390	72	9	291	86	12	991	172	41	344	94	14	432	88	14
FSM	128,075	22,395	3,997	63,676	20,511	3,430	93,282	16,635	3,528	125,382	18,325	4,293	118,121	29,831	4,632	139,070	22,979	5,685
Howland and Baker	691	213	61	502	149	51	1,428	216	54	317	46	24	280	71	30	590	206	44
HS Area #1	26,053	3,891	400	54,108	4,256	1,209	21,314	1,672	322	14,724	2,512	265	2,151	1,725	92	21,302	2,855	356
HS Area #2	165,929	29,599	7,300	158,402	38,595	7,865	208,149	40,165	8,643	8,506	499	261	5,846	1,940	261	3,773	997	86
HS Area #4	3,786	848	372	8,565	2,333	1,287	16,910	4,759	1,605	4,211	1,004	793	13,321	2,253	2,384	8,114	3,557	1,441
HS Area- Others	18,679	5,192	2,900	18,107	4,260	4,418	65,639	12,688	4,360	27,864	5,170	3,653	19,180	4,640	2,960	40,743	8,758	4,135
Jarvis	716	298	101	1	1	0	739	150	8	71	29	18	0	0	0	2,674	887	42
Kiribati (Gilbert)	110,870	28,575	4,934	122,679	68,149	3,806	150,063	27,900	8,271	103,754	25,702	5,596	102,681	21,574	11,633	304,420	103,289	18,982
Kiribati (Line)	9,707	3,979	3,590	22,223	2,510	3,324	9,914	1,760	2,690	11,590	2,066	2,304	14,481	2,430	3,469	20,780	4,934	4,514
Kiribati (Phoenix)	15,268	2,903	643	9,526	1,692	1,319	91,167	12,719	4,577	47,660	7,192	4,319	27,422	8,098	4,367	66,451	14,985	3,267
Marshall Is.	9,690	1,770	588	17,676	6,007	791	10,518	1,406	681	13,570	1,937	260	17,245	2,776	1,744	18,614	2,926	1,905
Nauru	51,395	11,145	2,666	43,376	15,004	1,896	47,751	10,090	1,926	78,471	25,186	3,219	82,794	16,857	8,347	42,850	8,960	3,637
PNG	316,115	91,499	10,070	287,273	106,130	13,444	255,608	81,622	12,493	443,886	167,085	15,918	384,655	119,991	14,974	307,805	99,828	10,900
Palau	264	179	0	2,394	942	2	473	212	0	275	53	11	0	0	0	0	0	0
Solomon Is.	66,781	23,332	1,270	81,790	25,342	3,282	73,340	23,517	2,716	116,179	25,848	4,836	101,654	24,252	4,472	36,636	11,489	1,789
Tokelau	868	25	9	3,201	548	181	5,895	1,014	319	3,402	268	110	18,133	1,098	585	18,133	1,948	1,113
Tuvalu	34,894	5,870	1,140	31,573	6,432	1,600	52,690	7,515	2,100	51,440	6,140	2,049	43,773	8,236	3,272	55,891	8,282	2,225

Notes

1. Summaries represent the best estimates of catch by species, year and EEZ/high seas area at this time.
2. Estimates of species composition have been determined from observer data adjusted for sampling selectivity bias; further work on species composition estimates is expected in the coming year which will result in refinement of these estimates.
3. Estimating CATCH for high seas/EEZs requires operational data which have not been provided for several key fleets. As a consequence, the estimates excluding archipelagic waters should be considered as provisional until such time as complete operational data have been provided for ALL fleets.
4. Estimates are for the WCPFC Area tropical purse seine fishery only (20°N-20°S)
5. Estimates exclude the domestic Indonesian and Philippine tuna fisheries.

Table 17. Annual catch estimates (% species composition) by EEZ/high seas area and tuna species in the tropical purse seine fishery of the WCPFC Convention Area (refer to Table 16 notes)

EEZ	2007			2008			2009			2010			2011			2012		
	SKJ	YFT	BET	SKJ	YFT	BET	SKJ	YFT	BET	SKJ	YFT	BET	SKJ	YFT	BET	SKJ	YFT	BET
American Samoa	-	-	-	81%	14%	5%	81%	15%	4%	98%	1%	1%	85%	11%	4%	85%	11%	3%
Cook Islands	-	-	-	76%	17%	7%	79%	15%	5%	78%	15%	7%	97%	2%	0%	85%	11%	4%
Fiji	53%	44%	4%	83%	15%	2%	75%	22%	3%	82%	14%	3%	76%	21%	3%	81%	16%	3%
FSM	83%	14%	3%	73%	23%	4%	82%	15%	3%	85%	12%	3%	77%	20%	3%	83%	14%	3%
Howland and Baker	72%	22%	6%	72%	21%	7%	84%	13%	3%	82%	12%	6%	73%	19%	8%	70%	25%	5%
HS Area #1	86%	13%	1%	91%	7%	2%	91%	7%	1%	84%	14%	2%	54%	43%	2%	87%	12%	1%
HS Area #2	82%	15%	4%	77%	19%	4%	81%	16%	3%	92%	5%	3%	73%	24%	3%	78%	21%	2%
HS Area #4	76%	17%	7%	70%	19%	11%	73%	20%	7%	70%	17%	13%	74%	13%	13%	62%	27%	11%
HS Area- Others	70%	19%	11%	68%	16%	16%	79%	15%	5%	76%	14%	10%	72%	17%	11%	76%	16%	8%
Jarvis	64%	27%	9%	50%	50%	0%	82%	17%	1%	60%	25%	15%	-	-	-	74%	25%	1%
Kiribati (Gilbert)	77%	20%	3%	63%	35%	2%	81%	15%	4%	77%	19%	4%	76%	16%	9%	71%	24%	4%
Kiribati (Line)	56%	23%	21%	79%	9%	12%	69%	12%	19%	73%	13%	14%	71%	12%	17%	69%	16%	15%
Kiribati (Phoenix)	81%	15%	3%	76%	13%	11%	84%	12%	4%	81%	12%	7%	69%	20%	11%	-	18%	4%
Marshall Is.	80%	15%	5%	72%	25%	3%	83%	11%	5%	86%	12%	2%	79%	13%	8%	79%	12%	8%
Nauru	79%	17%	4%	72%	25%	3%	80%	17%	3%	73%	24%	3%	77%	16%	8%	77%	16%	7%
PNG	76%	22%	2%	71%	26%	3%	73%	23%	4%	71%	27%	3%	74%	23%	3%	74%	24%	3%
Palau	60%	40%	0%	72%	28%	0%	69%	31%	0%	81%	16%	3%	-	-	-	-	-	-
Solomon Is.	73%	26%	1%	74%	23%	3%	74%	24%	3%	79%	18%	3%	78%	19%	3%	73%	23%	4%
Tokelau	96%	3%	1%	81%	14%	5%	82%	14%	4%	90%	7%	3%	92%	6%	3%	86%	9%	5%
Tuvalu	83%	14%	3%	80%	16%	4%	85%	12%	3%	86%	10%	3%	79%	15%	6%	84%	12%	3%

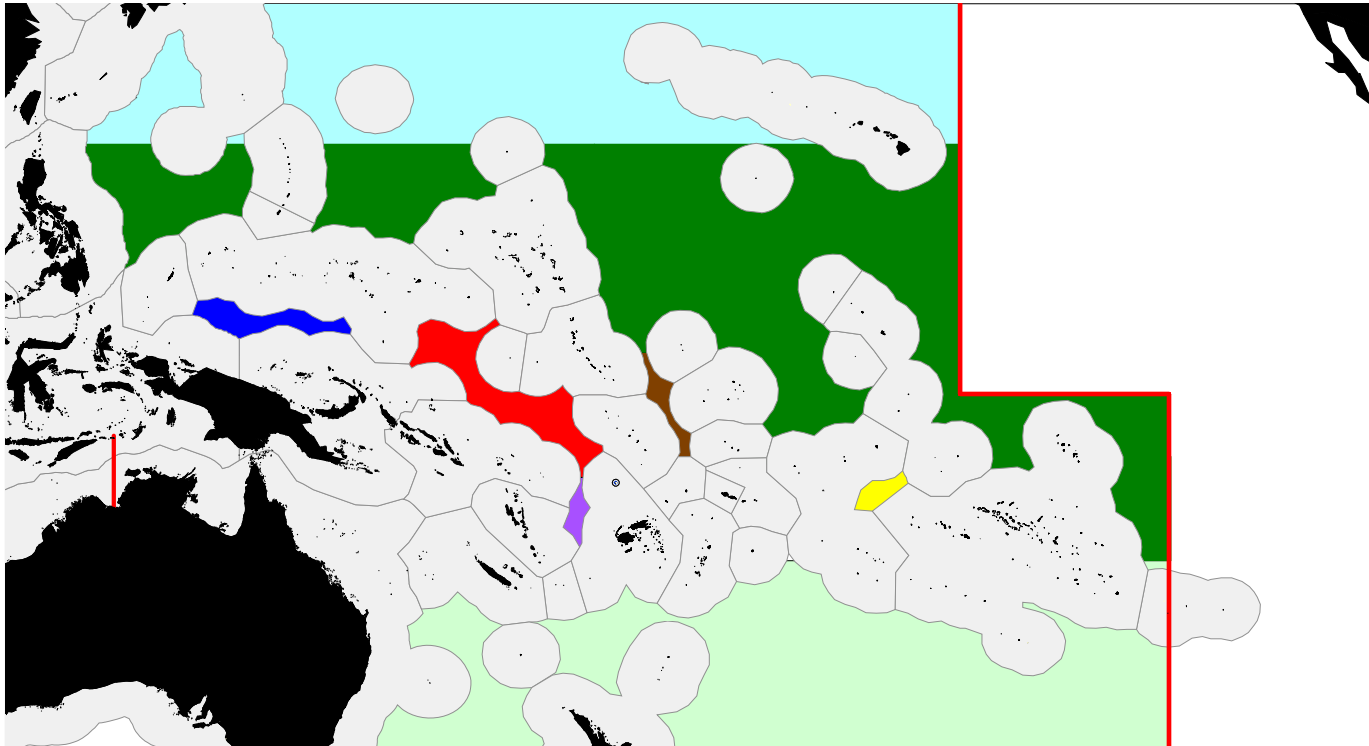


Figure 1. Explanation of high seas areas used in Table 16 and Table 17

HS Area #1	Doughnut hole between PNG and FSM	BLUE
HS Area #2	Doughnut hole between FSM, Solomons, Kiribati, Marshall Is. Nauru, Tuvalu	RED
HS Area #3	International waters bordered by Fiji, Solomon Is and Vanuatu	PURPLE
HS Area #4	International waters between Tuvalu, Phoenix and Tokelau, from the equator down to 10°S and east of 175°E to 170°W	BROWN
HS Area #5	International waters between the Cook Islands and French Polynesia	YELLOW
HS - Others	Other international waters between 20°N-20°S that is not included in the list above	DARK GREEN