



**SCIENTIFIC COMMITTEE  
TENTH REGULAR SESSION**

Majuro, Republic of the Marshall Islands  
6-14 August 2014

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**SMALL WORKING GROUP**

**DATA SUMMARIES FOR DISCUSSIONS ON THE CMM FOR TROPICAL TUNAS**

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**WCPFC-SC10-2014/ SC10-WCPFC10-03**

**SPC-OFF**



**COMMISSION**  
**Tenth Regular Session**  
2<sup>th</sup> December – 6<sup>th</sup> December 2013  
Cairns, AUSTRALIA

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**SMALL WORKING GROUP**

**DATA SUMMARIES FOR DISCUSSIONS  
ON THE CMM FOR TROPICAL TUNAS**

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**WCPFC10-2013-31**  
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**SMALL WORKING GROUP**  
**DATA SUMMARIES FOR DISCUSSIONS**  
**ON THE CMM FOR TROPICAL TUNAS**

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**WCPFC10-2013-31**  
2 December 2013

The following data summaries were requested by the Small Working Group convened to discuss the CMM for tropical tunas on the 2<sup>nd</sup> December 2013.

The following summaries are available in WCPFC10 Meeting papers and have been reproduced here to facilitate reference during the discussions of the small working group.

- **MEETING PAPER -- [WCPFC10-2013-12 : TABLE 3](#)**
- **MEETING PAPER -- [WCPFC10-2013-12 : TABLE 6](#)**
- **MEETING PAPER -- [WCPFC10-2013-12 : TABLE 11](#)**
- **MEETING PAPER -- [WCPFC10-2013-12 : TABLE 15](#)**

The following summaries from WCPFC10 Meeting papers were updated accordingly to small working group requests.

- **MEETING PAPER -- [WCPFC10-2013-28 : TABLE 3 \(revised\)](#)**

Revised with additional baseline years at the request of the US delegation and two additional purse seine and longline scenarios added at the request of the EU delegation.

The last table shows the FAD SET LIMITS for 2014 and 2015-2016, as requested by the small working group, which is based on summarised data in WCPFC10-2013-12.

**MEETING PAPER -- WCPFC10-2013-12 : TABLE 3**

**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)
<b>Total</b>	<b>73,938</b>	<b>89,177</b>	<b>78,914</b>	<b>93,664</b>	<b>83,923</b>	<b>94,621</b>	<b>94,598</b>	<b>73,920</b>	<b>78,382</b>	<b>75,740</b>	<b>76,790</b>	<b>74,911</b>	<b>66,441</b>	<b>67,557</b>	<b>71,148</b>	<b>61,543</b>	<b>77,000</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			(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.

**MEETING PAPER -- WCPFC10-2013-12 : TABLE 6**

**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.

**MEETING PAPER -- WCPFC10-2013-12 : TABLE 11**

**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
15	139	161	513	860	924	826	1,182	1,547	688	2,002	1,126	CHINA
						96	393	127	156	425	465	ECUADOR
10	30	1				53	151	162	137	185	182	EL SALVADOR
325	383	491	790	497	282	338	481	734	431	793	814	FEDERATED STATES OF MICRONESIA
												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
72	62	63	97	104	66	61	68	232	221	548	495	KIRIBATI
392	579	877	1,064	934	743	889	459	618	632	1,558	1,280	MARSHALL ISLANDS
136	398	438	574	196	488	419	440	387	190	185	145	NEW ZEALAND
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
882	1,007	1,240	1,197	1,131	851	249	537	551	361	190	416	PHILIPPINES (distant-water)
												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
152	118	100	92	110	254	189	301	533	186	150	153	SOLOMON ISLANDS
56	62	106	143	77	204	420	614	508	506	487	459	SPAIN
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
								29	40	55	73	TUVALU
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
36	139	181	655	528	476	579	227	385	192	393	242	VANUATU
9,418	11,787	11,135	18,837	13,805	15,761	14,051	15,714	18,795	10,940	18,461	17,552	

**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.



**MEETING PAPER -- WCPFC10-2013-12 : TABLE 15**

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

2010	2011	2012	
2,790	3,423	1,837	CHINA
181	474	478	ECUADOR
140	188	186	EL SALVADOR
1,067	1,267	1,295	FSM
			INDONESIA
6,552	7,306	6,511	JAPAN
727	1,340	1,987	KIRIBATI
1,904	2,110	2,032	MARSHALL ISLANDS
580	350	429	NEW ZEALAND
6,069	5,543	6,593	PAPUA NEW GUINEA
1,548	1,311	1,539	PHILIPPINES (distant-water)
			PHILIPPINES (domestic)
7,460	6,668	7,642	REPUBLIC OF KOREA
249	195	171	SOLOMON ISLANDS
541	517	516	SPAIN
7,908	7,645	7,455	CHINESE TAIPEI
347	323	272	TUVALU
8,698	6,319	9,006	USA
566	672	576	VANUATU
47,327	45,651	48,525	

**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

**MEETING PAPER -- WCPFC10-2013-28 : TABLE 3 (revised)**

Examined scenario for 2017	% change from 2011		% change from 2001-04		% change from 2004	
	FAD sets	LL catch	FAD sets	LL catch	FAD sets	LL catch
1 'Joint draft': 5mth FAD closure + high seas (HS) closure, longline limits + 2012 for others	-37	3	-9	-17	-38	-25
2 'Joint draft': 5mth FAD closure + HS closure, longline limits or 2012 if lower + 2012 for others	-37	-14	-9	-31	-38	-38
3 'Joint draft': FAD set limits + HS closure, longline limits + 2012 for others	-26	3	7	-17	-27	-25
4 'Joint draft': FAD set limits + HS closure, longline limits or 2012 if lower + 2012 for others	-26	-14	7	-31	-27	-38
5 'Joint draft': FAD closure + HS closure or set limits + HS closure whichever higher (at flag level), longline limits + 2012 for others	-22	3	13	-17	-23	-25
6 'Joint draft': FAD closure + HS closure or set limits + HS closure whichever higher (at flag level), longline limits or 2012 if lower + 2012 for others	-22	-14	13	-31	-23	-38
7 'Joint draft': FAD closure + HS closure or set limits + HS closure whichever higher or avg 2010-2012 if lower (at flag level), longline limits + 2012 for others	-30	3	1	-17	-31	-25
8 'Joint draft': FAD closure+ HS closure or set limits + HS closure whichever higher or avg 2010-2012 if lower (at flag level), longline limits or 2012 if lower + 2012 for others	-30	-14	1	-31	-31	-38
9 'US draft': 6 month FAD closure, and 75,000mt longline limit	-33	11	-4	-11	-35	-20
10 'Chair's draft': with 2,190 HS days limit, 'Joint draft' longline limit + 2012 for others	-26	3	7	-17	-28	-25
11 'Chair's draft': with 2,190 HS days limit, 'Joint draft' longline limit or 2012 if lower + 2012 for others	-26	-14	7	-31	-28	-38
12 'Chair's draft': with CMM08-01 HS days limit, 'US draft' longline limit	-25	11	8	-11	-27	-20
13 EU request: 6mth FAD closure with 2,190 HS days limit, 'Joint draft' longline limit or 2012 if lower + 2012 for others	-43	-14	-18	-31	-45	-38
14 EU request: 6mth FAD closure or set limit with 2,190 HS days limit, whichever higher or avg 2010-2012 if lower (at flag level), 'Joint draft' longline limit or 2012 if lower + 2012 for others	-31	-14	0	-31	-32	-38

Examined scenario for 2017		% change from 2011		% BET overfishing removed
		FAD sets	LL catch	
1	'Joint draft': 5mth FAD closure + high seas (HS) closure, longline limits + 2012 for others	-37	3	80
2	'Joint draft': 5mth FAD closure + HS closure, longline limits or 2012 if lower + 2012 for others	-37	-14	94
3	'Joint draft': FAD set limits + HS closure, longline limits + 2012 for others	-26	3	57
4	'Joint draft': FAD set limits + HS closure, longline limits or 2012 if lower + 2012 for others	-26	-14	71
5	'Joint draft': FAD closure + HS closure or set limits + HS closure whichever higher (at flag level), longline limits + 2012 for others	-22	3	49
6	'Joint draft': FAD closure + HS closure or set limits + HS closure whichever higher (at flag level), longline limits or 2012 if lower + 2012 for others	-22	-14	63
7	'Joint draft': FAD closure + HS closure or set limits + HS closure whichever higher or avg 2010-2012 if lower (at flag level), longline limits + 2012 for others	-30	3	66
8	'Joint draft': FAD closure+ HS closure or set limits + HS closure whichever higher or avg 2010-2012 if lower (at flag level), longline limits or 2012 if lower + 2012 for others	-30	-14	79
9	'US draft': 6 month FAD closure, and 75,000mt longline limit	-33	11	65
10	'Chair's draft': with 2,190 HS days limit, 'Joint draft' longline limit + 2012 for others	-26	3	57
11	'Chair's draft': with 2,190 HS days limit, 'Joint draft' longline limit or 2012 if lower + 2012 for others	-26	-14	71
12	'Chair's draft': with CMM08-01 HS days limit, 'US draft' longline limit	-25	11	49
13	EU request: 6mth FAD closure with 2,190 HS days limit, 'Joint draft' longline limits or 2012 if lower + 2012 for others	-43	-14	106
14	EU request: 6mth FAD closure or set limit with 2,190 HS days limit, whichever higher or avg 2010-2012 if lower (at flag level), 'Joint draft' longline limits or 2012 if lower + 2012 for others	-31	-14	81

Assumptions made:

- No rolling average included within FAD set limit calculations (i.e. based on 2010-2012 total set average throughout)
- FAD set fishing outside closure period was assumed comparable to recent years
- FAD closure evaluated as reductions in monthly FAD sets based on 2010-2012 average
- Chair's draft fixed set SIDS allocation distributed equally between SIDS nations
- High seas effort level assumed for the joint draft at around 2,190 days
- High seas FAD sets calculated based on allowed days by flag and flag-specific average FAD sets per day (2000-2008)

**FAD SET LIMITS for 2014 and 2015-2016 under specific draft CMM options, as requested by the small working group, based on summarised data in WCPFC10-2013-12.**

**2 December 1617 hrs**

CCM	Average FAD sets 2010-12	Average total set 2010-12
CHINA	1,272	2,683
ECUADOR	349	378
EL SALVADOR	168	171
FSM	679	1,210
JAPAN	1,256	6,790
KIRIBATI	421	1,351
MARSHALL ISLANDS	1,157	2,015
NEW ZEALAND	173	453
PAPUA NEW GUINEA	1,723	6,068
PHILIPPINES (distant-water)	322	1,466
REPUBLIC OF KOREA	1,479	7,257
SOLOMON ISLANDS	163	205
SPAIN	484	525
CHINESE TAIPEI	2,612	7,669
TUVALU	56	314
USA	3,061	8,008
VANUATU	276	605
<b>TOTAL</b>	<b>15,651</b>	<b>47,168</b>

2014			
Non-SIDS	SIDS		
31.5% total sets	8/9 FAD sets	36.5% total sets	Set limit
845			845
119			119
54			54
	604	442	604
2,139			2,139
	375	493	493
	1,028	736	1,028
143			143
	1,531	2,215	2,215
462			462
2,286			2,286
	145	75	145
165			165
2,416			2,416
	50	115	115
2,522			2,522
	245	221	245
			<b>15,996</b>

2015-16			
Non-SIDS	SIDS		
27.5% total sets	7/9 FAD sets	32.5% total sets	Set limit
738			738
104			104
47			47
	528	393	528
1,867			1,867
	328	439	439
	900	655	900
125			125
	1,340	1,972	1,972
403			403
1,996			1,996
	127	67	127
144			144
2,109			2,109
	44	102	102
2,202			2,202
	214	197	214
			<b>14,017</b>

**REDUCTION from 2011 FAD sets 13%**

**24%**