



CCSBT-ESC/0409/06

#### 4. Review of SBT Fisheries ミナミマグロ漁業のレビュー

##### Purpose 目的

To provide an overview of the most recent SBT fishing season and to review trends and changes in SBT Fisheries from national and global perspectives.  
最近のミナミマグロ漁業の概観を提示し、メンバー別及び世界的な観点からミナミマグロ漁業の傾向と変化を再検討する。

##### Background 背景

Members of the Extended Scientific Committee have prepared national reports for their SBT fisheries. The national reports are provided in papers of the classification “CCSBT-ESC/0409/SBT Fisheries” and will be presented by members at the meeting.  
拡大科学委員会のメンバー各国は自国のミナミマグロ漁業の国別報告書を作成した。国別報告書は “CCSBT-ESC/0409/SBT Fisheries” という分類で提供され、会議中にメンバー国により発表される。

The Secretariat has prepared four versions of the global catch table from information provided by members. These tables are required for the report of the Extended Scientific Committee, or for related reports as described below:  
事務局は加盟国により提供された情報に基づき 4 種類の全世界漁獲量の表を用意した。これらの表は拡大科学委員又は以下の関連する報告のために必要になる。

##### (1) Global catch by country 国別全世界漁獲量

- This is the global catch table that has appeared in each Scientific Committee report since 2001. This table is at **Attachment A**.  
この全世界漁獲量の表は 2001 年以降個々の科学委員会の報告書に掲載されている。この表は別添 A。
- Some changes have been made to this table since the last update was sent to members on 11 June 2004. This includes the separation of the Philippines catch from the Misc category and some minor updates of less than 0.5 tonnes to the Indonesian catch estimates from 1993 to 1999.  
この表に関しては 2004 年 6 月 11 日にメンバーに最新のデータを送付してから若干の修正が行われている。これには Misc (種々) からフィリピンの漁獲を分けたこと及び 1993 年から 1999 年のインドネシアの推定漁獲に関し 0.5 トン以下の範囲でいくつかのデータの最新化が行われたことが含まれる。

##### (2) Global catch by gear

### 漁業種類別全世界漁獲量

- The Eighth Meeting of the Extended Scientific Committee requested that a global catch by gear table (without country) be prepared for inclusion in future reports of the Scientific Committee. This table is at **Attachment B**.  
第 8 回科学委員会において将来の科学員会合報告書に漁業種類別全世界漁獲量を含めるための用意を行うことが要求された。この表は別添 B。

### (3) Global catch by country and ocean (Indian, Pacific, Atlantic) 国別海域別全世界漁獲量 (インド洋、太平洋、大西洋)

- This table is at **Attachment C**.  
この表は別添 C に示す。
- CCSBT 10 agreed that Extended Scientific Committee should take over the responsibility of preparing the annual SBT report to ICCAT. The report to ICCAT requires information on catch by country in the Atlantic Ocean.  
第 10 回年次会合において拡大科学委員会は ICCAT に対する SBT の年次報告を準備する責任を持つことが合意された。ICCAT への報告書には大西洋における国別漁獲量の情報を含める必要がある。
- The IOTC has contacted the Secretariat requesting a similar report for the Indian Ocean. This report requires information on catch by country in the Indian Ocean. IOTC は事務局に対しインド洋における同様の報告を要求している。この報告ではインド洋における国別漁獲量が必要になる。

### (4) Global catch by gear and ocean (Indian, Pacific, Atlantic) 漁業種類別海域別全世界漁獲量 (インド洋、太平洋、大西洋)

- The reports mentioned in point “3” above also require information on catch by gear in the Indian and Atlantic Oceans. This table is at **Attachment D**.  
この報告は上記 ( 3 ) ですすでに要求されているもののインド洋及び大西洋における漁業種類別漁獲量である。この表は別添 D に添付。

It should be noted that the figures produced by the Secretariat for catches in the Atlantic Ocean do not match the figures in Japan’s last SBT report to ICCAT. The method used by the Secretariat to calculate catches for the new tables (items “2” to “4” above) is described at Attachment E.

事務局によって作成された大西洋における漁獲数値と昨年日本が ICCAT に報告した SBT の漁獲数値が一致しないことに留意するべきかもしれない。新しい表 ( 上記 2 及び 4 ) を計算するために事務局が使った方法に関しては別添 E に示す。

**Prepared by the Secretariat**

事務局作成資料

## Global Catch by Country

Catches are presented as whole weights in tonnes. Numbers in **bold font** differ from those in Attachment D of the SC8 Report. **All 2003 figures are to be considered preliminary.**

Calendar Year	Australia	Japan	New Zealand	Korea*	Taiwan	Philippines	Indo.	Misc	Total (excludes 'other')	Other
1952	264	565	0	0	0	0	0	0	829	
1953	509	3,890	0	0	0	0	0	0	4,399	
1954	424	2,447	0	0	0	0	0	0	2,871	
1955	322	1,964	0	0	0	0	0	0	2,286	
1956	964	9,603	0	0	0	0	0	0	10,567	
1957	1,264	22,908	0	0	0	0	0	0	24,172	
1958	2,322	12,462	0	0	0	0	0	0	14,784	
1959	2,486	61,892	0	0	0	0	0	0	64,378	
1960	3,545	75,826	0	0	0	0	0	0	79,371	
1961	3,678	77,927	0	0	0	0	0	0	81,605	
1962	4,636	40,397	0	0	0	0	0	0	45,033	
1963	6,199	59,724	0	0	0	0	0	0	65,923	
1964	6,832	42,838	0	0	0	0	0	0	49,670	
1965	6,876	40,689	0	0	0	0	0	0	47,565	
1966	8,008	39,644	0	0	0	0	0	0	47,652	
1967	6,357	59,281	0	0	0	0	0	0	65,638	
1968	8,737	49,657	0	0	0	0	0	0	58,394	
1969	8,679	49,769	0	0	80	0	0	0	58,528	
1970	7,097	40,929	0	0	130	0	0	0	48,156	
1971	6,969	38,149	0	0	30	0	0	0	45,148	
1972	12,397	39,458	0	0	70	0	0	0	51,925	
1973	9,890	31,225	0	0	90	0	0	0	41,205	
1974	12,672	34,005	0	0	100	0	0	0	46,777	
1975	8,833	24,134	0	0	15	0	0	0	32,982	
1976	8,383	34,099	0	0	15	0	12	0	42,509	
1977	12,569	29,600	0	0	5	0	4	0	42,178	
1978	12,190	23,632	0	0	80	0	6	0	35,908	
1979	10,783	27,828	0	0	53	0	5	4	38,673	
1980	11,195	33,653	130	0	64	0	5	7	45,054	
1981	16,843	27,981	173	0	92	0	1	14	45,104	
1982	21,501	20,789	305	0	182	0	2	9	42,788	
1983	17,695	24,881	132	0	161	0	5	7	42,881	
1984	13,411	23,328	93	0	244	0	11	3	37,090	
1985	12,589	20,396	94	0	241	0	3	2	33,325	
1986	12,531	15,182	82	0	514	0	7	3	28,319	
1987	10,821	13,964	59	0	710	0	14	7	25,575	
1988	10,591	11,422	94	0	856	0	180	2	23,145	
1989	6,118	9,222	437	0	1,395	0	568	103	17,843	
1990	4,586	7,056	529	0	1,177	0	517	4	13,870	
1991	4,489	6,477	164	246	1,460	0	759	97	<b>13,691</b>	
1992	5,248	6,121	279	41	1,222	0	1,232	73	14,217	
1993	5,373	6,318	217	92	958	0	1,370	17	14,344	
1994	4,700	6,063	277	137	1,020	0	904	54	13,154	
1995	4,508	5,867	436	365	1,431	0	829	201	13,637	
1996	5,128	6,392	139	1,320	1,467	0	<b>1,614</b>	295	16,356	
1997	5,316	5,588	334	1,424	872	0	2,210	333	<b>16,076</b>	
1998	<b>4,897</b>	7,500	337	1,796	1,446	<b>5</b>	1,324	<b>471</b>	17,776	
1999	5,552	7,554	461	1,462	1,513	<b>80</b>	2,504	<b>403</b>	19,529	
2000	5,257	6,000	380	1,135	1,448	<b>17</b>	1,203	<b>31</b>	15,472	
2001	4,853	6,674	358	845	1,580	<b>43</b>	1,632	<b>41</b>	<b>16,026</b>	4
2002	4,711	6,192	450	746	1,137	<b>82</b>	<b>1,691</b>	<b>203</b>	<b>15,212</b>	17
2003	5,822	5,762	389	254	1,128	68	555	45	14,024	17

Philippines: The Philippines became a cooperating non member of CCSBT during 2004, so its catch is now specifically identified (in previous years this was incorporated in the "Misc" category). In addition, catch figures provided by the Philippines are now used for the Philippines catch from 2000 instead of Japanese import statistics. This has resulted in an increase in overall catch of approximately 24, 19 and 16 tonnes for 2001, 2002 and 2003 respectively over previously used figures.

Misc: SBT catch other than those listed (obtained from Japanese import statistics). For 2003, this comprises China (~40t) and South Africa (~5t).

Other: Mortality of SBT from other sources that have not been included in country figures. This includes mortality that occurred during research programs including the CCSBT Scientific Research Program. This information has yet to be compiled for years prior to 2001.

\* Japanese Import Statistics for 1993, 1994, and 1998 are higher than these official statistics and are: 117, 147, and 1897 respectively. Assessments would normally use the higher of these values.

## Global Catch by Gear

Catches are presented as whole weights in tonnes. **All 2003 figures are to be considered preliminary.**

Catches from Indonesia and the "Misc" category of countries were assigned to the longline fishery. Catches from other line fisheries not listed below (such as "minor line") were also assigned to the longline fishery.

Calendar Year	Longline	Purse Seine	Pole and Line	Trot	Unspecified Surface Fisheries	Handline	Gill Net
1952	565	0	0	0	264	0	0
1953	3,890	0	0	0	509	0	0
1954	2,447	0	0	0	424	0	0
1955	1,964	0	0	0	322	0	0
1956	9,603	0	0	0	964	0	0
1957	22,908	0	0	0	1,264	0	0
1958	12,462	0	0	0	2,322	0	0
1959	61,892	0	0	0	2,486	0	0
1960	75,826	0	0	0	3,545	0	0
1961	77,927	0	0	0	3,678	0	0
1962	40,397	0	0	0	4,636	0	0
1963	59,724	0	0	0	6,199	0	0
1964	42,838	0	0	0	6,832	0	0
1965	40,689	0	0	0	6,876	0	0
1966	39,644	0	0	0	8,008	0	0
1967	59,281	0	0	0	6,357	0	0
1968	49,657	0	0	0	8,737	0	0
1969	49,849	0	0	0	8,679	0	0
1970	41,059	0	0	0	7,097	0	0
1971	38,179	0	0	0	6,969	0	0
1972	39,528	0	0	0	12,397	0	0
1973	31,315	0	0	0	9,890	0	0
1974	34,105	0	0	0	12,672	0	0
1975	24,149	8,833	0	0	0	0	0
1976	34,126	3,155	5,228	0	0	0	0
1977	29,609	1,550	11,019	0	0	0	0
1978	23,718	3,577	8,613	0	0	0	0
1979	27,890	2,097	8,686	0	0	0	0
1980	33,729	2,036	9,159	0	0	130	0
1981	28,088	6,752	10,091	0	0	173	0
1982	20,971	6,831	14,670	0	0	305	11
1983	25,042	5,872	11,823	0	0	132	12
1984	23,586	4,444	8,967	0	0	93	0
1985	20,575	5,179	7,410	0	0	94	67
1986	15,625	6,376	6,155	0	0	82	81
1987	14,609	5,411	5,409	0	0	59	87
1988	12,227	2,820	7,770	0	0	94	234
1989	11,950	1,626	3,807	31	0	109	319
1990	8,968	2,511	1,803	21	0	263	305
1991	10,692	1,034	1,823	1	0	35	107
1992	12,467	22	1,673	4	0	48	3
1993	12,770	536	1,018	0	0	20	0
1994	11,036	1,269	844	0	0	4	0
1995	10,979	1,840	795	8	0	15	0
1996	11,564	3,121	1,659	3	0	8	0
1997	11,200	2,998	1,843	31	0	5	0
1998	13,537	3,584	640	13	0	2	0
1999	14,177	5,325	22	3	0	2	0
2000	10,339	5,132	0	1	0	0	0
2001	11,259	4,767	0	0	0	0	0
2002	10,528	4,683	0	1	0	0	0
2003	8,237	5,787	0	0	0	0	0

## Global Catch by Country and Ocean

Catches are presented as whole weights in tonnes. **All 2003 figures are to be considered preliminary.**

Catches have been assigned to the Indian Ocean where catch location information was not available. This includes catches from Indonesia, Misc, the Philippines (pre-2000 only), Taiwan (pre-1981 only).

Ocean	Calendar Year	Australia	Japan	New Zealand	Korea	Taiwan	Philippines	Indonesia	Misc
Atlantic	1965	0	15	0	0	0	0	0	0
Atlantic	1968	0	411	0	0	0	0	0	0
Atlantic	1969	0	1,869	0	0	0	0	0	0
Atlantic	1970	0	7,575	0	0	0	0	0	0
Atlantic	1971	0	2,126	0	0	0	0	0	0
Atlantic	1972	0	3,928	0	0	0	0	0	0
Atlantic	1973	0	2,235	0	0	0	0	0	0
Atlantic	1974	0	2,266	0	0	0	0	0	0
Atlantic	1975	0	1,051	0	0	0	0	0	0
Atlantic	1976	0	1,009	0	0	0	0	0	0
Atlantic	1977	0	4,463	0	0	0	0	0	0
Atlantic	1978	0	6,528	0	0	0	0	0	0
Atlantic	1979	0	8,231	0	0	0	0	0	0
Atlantic	1980	0	3,086	0	0	0	0	0	0
Atlantic	1981	0	2,365	0	0	35	0	0	0
Atlantic	1982	0	1,104	0	0	9	0	0	0
Atlantic	1983	0	573	0	0	30	0	0	0
Atlantic	1984	0	2,082	0	0	1	0	0	0
Atlantic	1985	0	1,733	0	0	95	0	0	0
Atlantic	1986	0	434	0	0	216	0	0	0
Atlantic	1987	0	1,228	0	0	102	0	0	0
Atlantic	1988	0	573	0	0	28	0	0	0
Atlantic	1989	0	493	0	0	19	0	0	0
Atlantic	1990	0	987	0	0	17	0	0	0
Atlantic	1991	0	1,080	0	0	233	0	0	0
Atlantic	1992	0	253	0	0	46	0	0	0
Atlantic	1993	0	1,425	0	80	108	0	0	0
Atlantic	1994	0	420	0	7	56	0	0	0
Atlantic	1995	0	1,237	0	24	584	0	0	0
Atlantic	1996	0	1,015	0	0	24	0	0	0
Atlantic	1997	0	189	0	0	89	0	0	0
Atlantic	1998	0	649	0	47	42	0	0	0
Atlantic	1999	0	689	0	100	30	0	0	0
Atlantic	2000	0	1,203	0	242	24	0	0	0
Atlantic	2001	0	327	0	90	223	0	0	0
Atlantic	2002	0	909	0	116	16	0	0	0
Atlantic	2003	0	1,992	0	0	86	0	0	0
Indian	1965	4,675	28,095	0	0	0	0	0	0
Indian	1966	5,882	26,358	0	0	0	0	0	0
Indian	1967	3,528	50,475	0	0	0	0	0	0
Indian	1968	3,140	41,426	0	0	0	0	0	0
Indian	1969	3,545	39,680	0	0	80	0	0	0
Indian	1970	2,808	26,551	0	0	130	0	0	0
Indian	1971	3,411	23,138	0	0	30	0	0	0
Indian	1972	5,838	23,064	0	0	70	0	0	0
Indian	1973	7,244	21,282	0	0	90	0	0	0
Indian	1974	7,563	24,196	0	0	100	0	0	0
Indian	1975	2,667	17,644	0	0	15	0	0	0
Indian	1976	7,440	24,395	0	0	15	0	12	0
Indian	1977	9,914	20,212	0	0	5	0	4	0
Indian	1978	8,509	13,550	0	0	80	0	6	0
Indian	1979	7,557	13,587	0	0	53	0	5	4
Indian	1980	7,860	20,526	0	0	64	0	5	7
Indian	1981	7,944	17,284	0	0	56	0	1	14
Indian	1982	19,198	14,966	0	0	173	0	2	9
Indian	1983	16,781	21,391	0	0	131	0	5	7

## Attachment C

Indian	1984	13,299	18,935	0	0	243	0	11	3
Indian	1985	12,589	16,780	0	0	146	0	3	2
Indian	1986	12,489	12,938	0	0	298	0	7	3
Indian	1987	10,805	10,946	0	0	608	0	14	7
Indian	1988	10,590	9,754	0	0	828	0	180	2
Indian	1989	5,438	7,536	0	0	1,376	0	568	103
Indian	1990	4,335	4,383	0	0	1,160	0	517	4
Indian	1991	3,876	4,137	0	15	1,227	0	759	97
Indian	1992	4,568	4,238	0	41	1,176	0	1,232	73
Indian	1993	4,513	2,869	0	12	850	0	1,370	17
Indian	1994	4,246	4,132	0	130	963	0	904	54
Indian	1995	3,362	3,684	0	341	848	0	829	201
Indian	1996	4,893	4,248	0	1,320	1,442	0	1,614	295
Indian	1997	4,910	4,500	0	1,424	783	0	2,210	333
Indian	1998	4,353	5,838	0	1,749	1,397	5	1,324	471
Indian	1999	5,448	5,126	0	1,361	1,483	80	2,504	403
Indian	2000	5,147	3,370	0	893	1,424	17	1,203	31
Indian	2001	4,792	4,453	0	754	1,357	43	1,632	41
Indian	2002	4,693	3,153	0	630	1,121	79	1,691	203
Indian	2003	5,808	1,949	0	254	1,041	65	555	45
Pacific	1965	2,201	12,579	0	0	0	0	0	0
Pacific	1966	2,126	13,286	0	0	0	0	0	0
Pacific	1967	2,829	8,806	0	0	0	0	0	0
Pacific	1968	5,597	7,820	0	0	0	0	0	0
Pacific	1969	5,134	8,220	0	0	0	0	0	0
Pacific	1970	4,289	6,803	0	0	0	0	0	0
Pacific	1971	3,558	12,886	0	0	0	0	0	0
Pacific	1972	6,559	12,466	0	0	0	0	0	0
Pacific	1973	2,646	7,708	0	0	0	0	0	0
Pacific	1974	5,109	7,542	0	0	0	0	0	0
Pacific	1975	6,166	5,439	0	0	0	0	0	0
Pacific	1976	943	8,695	0	0	0	0	0	0
Pacific	1977	2,655	4,925	0	0	0	0	0	0
Pacific	1978	3,681	3,554	0	0	0	0	0	0
Pacific	1979	3,226	6,010	0	0	0	0	0	0
Pacific	1980	3,335	10,041	130	0	0	0	0	0
Pacific	1981	8,899	8,332	173	0	0	0	0	0
Pacific	1982	2,303	4,719	305	0	0	0	0	0
Pacific	1983	914	2,916	132	0	0	0	0	0
Pacific	1984	112	2,312	93	0	0	0	0	0
Pacific	1985	0	1,883	94	0	0	0	0	0
Pacific	1986	42	1,810	82	0	0	0	0	0
Pacific	1987	16	1,791	59	0	0	0	0	0
Pacific	1988	1	1,095	94	0	0	0	0	0
Pacific	1989	680	1,193	437	0	0	0	0	0
Pacific	1990	251	1,686	529	0	0	0	0	0
Pacific	1991	613	1,260	164	232	0	0	0	0
Pacific	1992	680	1,630	279	0	0	0	0	0
Pacific	1993	860	2,024	217	0	0	0	0	0
Pacific	1994	454	1,510	277	0	0	0	0	0
Pacific	1995	1,145	946	436	0	0	0	0	0
Pacific	1996	236	1,129	139	0	0	0	0	0
Pacific	1997	406	898	334	0	0	0	0	0
Pacific	1998	543	1,013	337	0	7	0	0	0
Pacific	1999	104	1,740	461	0	0	0	0	0
Pacific	2000	110	1,427	380	0	0	0	0	0
Pacific	2001	61	1,894	358	1	0	0	0	0
Pacific	2002	19	2,130	450	0	0	2	0	0
Pacific	2003	14	1,821	389	0	2	3	0	0

## Global Catch by Gear and Ocean

Catches are presented as whole weights in tonnes. **All 2003 figures are to be considered preliminary.**

Catches have been assigned to the Indian Ocean where catch location information was not available. This includes catches from Indonesia, Misc, the Philippines (pre-2000 only), Taiwan (pre-1981 only).

Catches from Indonesia and the "Misc" category of countries were assigned to the longline fishery. Catches from other line fisheries not listed below (such as "minor line") were also assigned to the longline fishery.

Ocean	Calendar Year	Longline	Purse Seine	Pole and Line	Trot	Unspecified Surface Fisheries	Handline	Gill Net
Atlantic	1965	15	0	0	0	0	0	0
Atlantic	1968	411	0	0	0	0	0	0
Atlantic	1969	1,869	0	0	0	0	0	0
Atlantic	1970	7,575	0	0	0	0	0	0
Atlantic	1971	2,126	0	0	0	0	0	0
Atlantic	1972	3,928	0	0	0	0	0	0
Atlantic	1973	2,235	0	0	0	0	0	0
Atlantic	1974	2,266	0	0	0	0	0	0
Atlantic	1975	1,051	0	0	0	0	0	0
Atlantic	1976	1,009	0	0	0	0	0	0
Atlantic	1977	4,463	0	0	0	0	0	0
Atlantic	1978	6,528	0	0	0	0	0	0
Atlantic	1979	8,231	0	0	0	0	0	0
Atlantic	1980	3,086	0	0	0	0	0	0
Atlantic	1981	2,400	0	0	0	0	0	0
Atlantic	1982	1,114	0	0	0	0	0	0
Atlantic	1983	604	0	0	0	0	0	0
Atlantic	1984	2,082	0	0	0	0	0	0
Atlantic	1985	1,828	0	0	0	0	0	0
Atlantic	1986	650	0	0	0	0	0	0
Atlantic	1987	1,330	0	0	0	0	0	0
Atlantic	1988	602	0	0	0	0	0	0
Atlantic	1989	513	0	0	0	0	0	0
Atlantic	1990	1,004	0	0	0	0	0	0
Atlantic	1991	1,313	0	0	0	0	0	0
Atlantic	1992	300	0	0	0	0	0	0
Atlantic	1993	1,612	0	0	0	0	0	0
Atlantic	1994	483	0	0	0	0	0	0
Atlantic	1995	1,845	0	0	0	0	0	0
Atlantic	1996	1,040	0	0	0	0	0	0
Atlantic	1997	278	0	0	0	0	0	0
Atlantic	1998	738	0	0	0	0	0	0
Atlantic	1999	819	0	0	0	0	0	0
Atlantic	2000	1,470	0	0	0	0	0	0
Atlantic	2001	640	0	0	0	0	0	0
Atlantic	2002	1,041	0	0	0	0	0	0
Atlantic	2003	2,078	0	0	0	0	0	0
Indian	1965	28,095	0	0	0	4,675	0	0
Indian	1966	26,358	0	0	0	5,882	0	0
Indian	1967	50,475	0	0	0	3,528	0	0
Indian	1968	41,426	0	0	0	3,140	0	0
Indian	1969	39,760	0	0	0	3,545	0	0
Indian	1970	26,681	0	0	0	2,808	0	0
Indian	1971	23,168	0	0	0	3,411	0	0
Indian	1972	23,134	0	0	0	5,838	0	0
Indian	1973	21,372	0	0	0	7,244	0	0
Indian	1974	24,296	0	0	0	7,563	0	0
Indian	1975	17,659	2,667	0	0	0	0	0
Indian	1976	24,422	3,037	4,403	0	0	0	0
Indian	1977	20,221	932	8,982	0	0	0	0
Indian	1978	13,636	1,562	6,947	0	0	0	0

## Attachment D

Indian	1979	13,649	111	7,446	0	0	0	0
Indian	1980	20,602	107	7,754	0	0	0	0
Indian	1981	17,355	420	7,524	0	0	0	0
Indian	1982	15,139	5,489	13,708	0	0	0	11
Indian	1983	21,522	5,083	11,698	0	0	0	12
Indian	1984	19,192	4,339	8,960	0	0	0	0
Indian	1985	16,864	5,179	7,410	0	0	0	67
Indian	1986	13,165	6,342	6,147	0	0	0	81
Indian	1987	11,489	5,411	5,393	0	0	0	87
Indian	1988	10,530	2,820	7,770	0	0	0	234
Indian	1989	9,281	1,626	3,794	0	0	0	319
Indian	1990	5,781	2,511	1,803	0	0	0	305
Indian	1991	7,146	1,034	1,823	0	0	0	107
Indian	1992	9,664	22	1,639	0	0	0	3
Indian	1993	8,077	536	1,018	0	0	0	0
Indian	1994	8,319	1,269	841	0	0	0	0
Indian	1995	6,629	1,840	795	0	0	0	0
Indian	1996	9,064	3,099	1,649	0	0	0	0
Indian	1997	9,343	2,991	1,826	0	0	0	0
Indian	1998	10,942	3,555	640	0	0	0	0
Indian	1999	11,059	5,325	22	0	0	0	0
Indian	2000	6,953	5,132	0	0	0	0	0
Indian	2001	8,304	4,767	0	0	0	0	0
Indian	2002	6,887	4,683	0	0	0	0	0
Indian	2003	3,931	5,787	0	0	0	0	0
Pacific	1965	12,579	0	0	0	2,201	0	0
Pacific	1966	13,286	0	0	0	2,126	0	0
Pacific	1967	8,806	0	0	0	2,829	0	0
Pacific	1968	7,820	0	0	0	5,597	0	0
Pacific	1969	8,220	0	0	0	5,134	0	0
Pacific	1970	6,803	0	0	0	4,289	0	0
Pacific	1971	12,886	0	0	0	3,558	0	0
Pacific	1972	12,466	0	0	0	6,559	0	0
Pacific	1973	7,708	0	0	0	2,646	0	0
Pacific	1974	7,542	0	0	0	5,109	0	0
Pacific	1975	5,439	6,166	0	0	0	0	0
Pacific	1976	8,695	118	825	0	0	0	0
Pacific	1977	4,925	617	2,037	0	0	0	0
Pacific	1978	3,554	2,015	1,666	0	0	0	0
Pacific	1979	6,010	1,986	1,240	0	0	0	0
Pacific	1980	10,041	1,929	1,405	0	0	130	0
Pacific	1981	8,333	6,332	2,567	0	0	173	0
Pacific	1982	4,719	1,342	961	0	0	305	0
Pacific	1983	2,916	790	125	0	0	132	0
Pacific	1984	2,312	105	6	0	0	93	0
Pacific	1985	1,883	0	0	0	0	94	0
Pacific	1986	1,810	34	8	0	0	82	0
Pacific	1987	1,791	0	16	0	0	59	0
Pacific	1988	1,095	0	0	0	0	94	0
Pacific	1989	2,157	0	13	31	0	109	0
Pacific	1990	2,183	0	0	21	0	263	0
Pacific	1991	2,233	0	0	1	0	35	0
Pacific	1992	2,503	0	33	4	0	48	0
Pacific	1993	3,082	0	0	0	0	20	0
Pacific	1994	2,234	0	3	0	0	4	0
Pacific	1995	2,505	0	0	8	0	15	0
Pacific	1996	1,460	22	10	3	0	8	0
Pacific	1997	1,579	7	16	31	0	5	0
Pacific	1998	1,857	29	0	13	0	2	0
Pacific	1999	2,300	0	0	3	0	2	0
Pacific	2000	1,917	0	0	1	0	0	0
Pacific	2001	2,314	0	0	0	0	0	0
Pacific	2002	2,601	0	0	1	0	0	0
Pacific	2003	2,228	0	0	0	0	0	0



## Method Used by the Secretariat to Produce the New Global Catch Tables

The Secretariat has only one complete dataset with total catch weights by country and calendar year. This is the catch by fleet data supplied by members, from which the global catch table (by country) is produced. Unfortunately, this data contains no spatial subdivision and for many years, does not contain complete gear subdivision. As a consequence, to produce the three new catch tables (by gear, by ocean and country, and by gear and country), it has been necessary to conduct a variety of manipulations on different datasets to produce the necessary information. The manipulations and datasets used are described briefly below on a country by country basis. The map in Attachment F shows the boundaries that were used to divide the Indian, Pacific and Atlantic Oceans. The boundaries are drawn along lines of 5 degree units as this is the resolution of most of the data.

All data manipulations were conducted in such a manner that resulted in the same total catches as the annual catch by fleet totals for each country.

### Australia

Three datasets were used for Australia:

(1) Catch at size data

This data was used for the period from 1952 to 1974 inclusive. Numbers caught were converted to weights using agreed formulae. These weights were then scaled against the catch by fleet totals in each year. In this dataset, the surface fishery is not subdivided by gear and location information is only by State (domestic fleet) or Statistical area (joint venture fleet).

(2) Catch and Effort data

This data was used for the period from 1975 to 2001 inclusive. This data provided better gear and location subdivision than the catch at size data. Catch weights provided in the catch effort data were scaled against the catch by fleet totals in each year and gear group (surface group and line group).

(3) Raised catch data

In the 2004 data exchange, Australia provided raised catch data for 2002 and 2003. This data was used and it required no further manipulation.

### Japan

From 1952 to 1964, it has been assumed that Japan's catch was by longline. The Secretariat has no information on its database concerning the location of pre-1965 catches for Japan, so catches by oceans have not been produced for years prior to 1965.

For 1965 to 2003, Japan's catch and effort data was used (L5M data to 1994 and CCSBT data from 1995). Catches were converted from numbers to weights using the same method as used for the Management Procedure data. These weights were then scaled against the catch by fleet totals in each year.

### New Zealand

The New Zealand raised catch data as calculated by the Secretariat was used without further modification. This calculation method was described on the CCSBT data CD and has been previously agreed with New Zealand.

## Korea

The Korea's catch and effort data was used, with scaling (which in this case, is raising) against the catch by fleet totals in each year.

## Taiwan

From 1969 to 1980, the Secretariat has no information on its database concerning the location of Taiwan's catch. All of Taiwan's catch in this period has been assigned to the Indian Ocean.

Taiwan's raised catch and effort data was used from 1981. Scaling against the catch by fleet totals were conducted in each year, but this was not really necessary because of the raised nature of Taiwan's data.

## Philippines

From 1996 to 1999 inclusive, totals are from the Japanese import statistics with no further information. These catches were assumed to be longline catches in the Indian Ocean.

From 2000, catch reports have been provided by the Philippines with enough detail to work out the ocean and gear details. These data have been used.

## Indonesia and Miscellaneous

All catches for Indonesia and "Misc" are assumed to be caught from the Indian Ocean via longlines.

**Boundaries used to separate SBT catches for the Indian, Pacific and Atlantic Oceans**

**The lower longitude divisions are:**

**Indian Ocean ( $\geq 20^{\circ}\text{E}$ ,  $< 150^{\circ}\text{E}$ ),**

**Pacific Ocean ( $\geq 150^{\circ}\text{E}$ ,  $< 65^{\circ}\text{W}$ ),**

**Atlantic Ocean ( $\geq 65^{\circ}\text{W}$ ,  $< 20^{\circ}\text{E}$ )**

