

International Consultations on the Establishment of the South Pacific Regional Fisheries Management Organisation

Update of Data Submitted to the Interim Secretariat as at 12 May 2009

Interim Secretariat

1.0 Introduction

This paper summarises data for the key species which have been submitted to the Interim Secretariat as of 12 May 2009. The species included in this report are mackerels, squids, orange roughy and alfoncino.

2.0 High Level Summary of Data Received to Date

A. Data Types Received

Table 1 below gives a very high level summary of the types of data received to date.

Table 1: General Overview of the Types of Data Received to Date

Data Type		Received by SPRFMO to Date (12 May 2009)
		Yes/No
Catch	Annual Aggregated Catch Data	For some Participants, years and areas
	5 Degree by 5 Degree Square Data	For some Participants, years and areas
	1 Degree by 1 Degree Square Data by Month	Received from China for 2008
	Tow by Tow Data	Received for mackerel fisheries from the Cook Islands for 2007, from the EC for 2008, and from Korea for 2003 - 2008 (NZ tow by tow submission on hold until the SPRFMO database is implemented)
Vessel Details	Details of Vessel Capacity, etc	For some Participants, years and areas
Vessel Effort	No. vessels fishing, no. vessel days fished, no. operative hours fished	For some Participants, years and areas
VMS	Vessel monitoring positional data	For some Participants and areas as either positions for 2007, or as maps for 2007 and 2008
Observer	As specified in data standards.....e.g. observer details, catch and effort, length-frequency, biological sampling, incidental bycatch, VME and tagging data	- received from the EC for pelagic and longline fisheries for 2008 – includes catch, and length frequency and biological sampling data for jack mackerel - received observed trawl and biological data from Korea for 2 vessels for 2008 - length frequency data from Vanuatu for 2003 -2006 (jack mackerel)

B. 2007 and 2008 Catch Data Received to Date

The primary standards for reporting data on fishing activities, vessels, observers, and VMS are contained in the Standards for the collection, reporting, verification and exchange of data (as amended in October 2008), and in the Template for compilation of historical catch and effort data (Annex E of the Report to the Third Meeting). Other criteria are contained in the Interim Measures adopted by participants at the Third meeting.

In respect of fishing activity data, the Standards provide a set of annexes specifying the data to be collected by participants and require that data are provided to the Interim Secretariat in sufficient detail to facilitate effective stock assessment. Data are to be provided by 30 June after the end of each year.

The Template provides "Minimum", "Preferable", and "If Practical" Standards for specification of data. Generally, in respect of catches, the three categories refer to:

- aggregated annual data (referred to below as category "C"),
- annual data aggregated as 5 degree square blocks (referred to below as category "B"), and
- detailed tow/set data described in the annexes of the Standards (referred to below as category "A".)

Table 2 shows a summary of catch, data received from each participant for 2008, 2007 for jack mackerel, orange roughy and squid. The level of aggregation of the catch data received from each participant for the 2007 year is shown by the three categories in the column "Indicative type of catch data supplied for the 2007 year".

Table 2 does not include the following information for participants who reported no catches for the years and species listed below:

- Belize reported 0 squid catch for 2007
- The Russian Federation reported 0 squid and orange roughy catches for 2007
- Cuba and the United States reported no fishing in the Area during 2007 and 2008
- France and its Territories reported no fishing in the Area during 2008

Table 2 – Part 1 of 2: General Overview of 2007 and 2008 Catch Data Received for Key Species

Participant	Indicative Type of Catch Data Supplied for the 2007 Year	Catch Data Received by the Interim Secretariat as at 12 May 2009						
		Fishery	Annual Catch Totals		5x5 Data (High Seas only)		Tow by Tow/ Set by Set	
			2008	2007	2008	2007	2008	2007
Australia	NA	Jack Mackerel (HS)		NA		NA		NA
	C	Jack Mackerel (EEZ)		Yes				
		Orange roughy						
		Squid						
Belize	B	Jack/Horse Mackerel (HS)	Yes	Yes	Yes	Yes	No	No - but daily catch totals in 1x1 degree squares provided
	B	Orange roughy		Yes		Yes		No
Chile	C	Jack Mackerel (HS)	Yes*	Yes*	No	No	No	No
	NA	Orange roughy	NA	NA	NA	NA	NA	NA
	C	Squid	Yes*	Yes*	No	No	No	No
China	B	Jack Mackerel (HS)	Yes	Yes	Data provided in 1x1 degree squares by month - 5x5 data could be derived from 1x1 data	Yes	No	No
	C	Orange roughy		Yes		No		No
	C	Squid		Yes		No		No
Cook Islands	A	Jack Mackerel (HS)		Yes		No - but can be derived from tow by tow data		Yes (received in VMS data format)
		Orange roughy						
		Squid						
Ecuador	NA	Jack Mackerel (HS)	NA	NA	NA	NA	NA	NA
	C	Jack Mackerel (EEZ)		Yes				
		Orange roughy						
		Squid						
European Community	A	Jack Mackerel (HS)	Yes	Yes	No - but can be derived from tow by tow data	Yes	Yes	No
		Orange roughy						
		Squid						

* Data includes catch from vessels fishing within waters of national jurisdiction and vessels fishing on the High Seas of the South Pacific

^ Total includes small quantities of unspecified mackerel species

Hs High Seas

No Data not yet received at the level of detail indicated in the table (and it is known that fishing did occur in the fishery and year specified)

NA No data is expected to be provided as fishing did not take place in this fishery

Yes Data has been received for the year and level of detail indicated

Table 2 – Part 2 of 2: General Overview of 2007 and 2008 Catch Data Received for Key Species

Participant	Indicative Type of Catch Data Supplied for the 2007 Year	Catch Data Received by the Interim Secretariat as at 12 May 2009						
		Fishery	Annual Catch Totals		5x5 Data (High Seas only)		Tow by Tow/ Set by Set	
			2008	2007	2008	2007	2008	2007
Faroe Islands	C	Jack Mackerel (HS)	Yes	Yes [^]	No	No	No	No
		Orange roughy						
		Squid						
Japan	NA	Jack Mackerel	NA	NA	NA	NA	NA	NA
		Orange roughy						
		Squid						
Korea	A	Jack Mackerel (HS)	No - but could be derived from tow by tow data	Yes	No - but can be derived from tow by tow data	No - but can be derived from tow by tow data	Yes	Yes
		Orange roughy						
		Squid						
New Zealand	NA	Jack Mackerel (HS)	NA	NA	NA	NA	NA	NA
	B	Orange roughy	Yes	Yes	Yes	Yes	Available when SPRFMO database ready	Available when SPRFMO database ready
	B	Squid		Yes		Yes	Available when SPRFMO database ready	Available when SPRFMO database ready
Russian Federation	NA	Jack Mackerel (HS)		NA		NA		NA
Ukraine		Jack Mackerel (HS)						
	C	Jack Mackerel (NZ EEZ)		Yes				
		Orange roughy						
		Squid						
Vanuatu	C	Jack Mackerel (HS)	No	Yes	No	No	No	No
		Orange roughy						
		Squid						
Chinese Taipei Fishing Entity	NA	Jack Mackerel (HS)	NA	NA	NA	NA	NA	NA
		Orange roughy						
		Squid	No	No	No	No	No	No

* Data includes catch from vessels fishing within waters of national jurisdiction and vessels fishing on the High Seas of the South Pacific

[^] Total includes small quantities of unspecified mackerel species

Hs High Seas

No Data not yet received at the level of detail indicated in the table (and it is known that fishing did occur in the fishery and year specified)

NA No data is expected to be provided as fishing did not take place in this fishery

Yes Data has been received for the year and level of detail indicated

3.0 Mackerel Data Summaries: Fish Taken Entirely or Partially within SPRFMO Area

Table 3: Annual Catch Data for Chilean Jack, Jack and Horse Mackerel Received to Date (Part 1 of 2)

NB: Does not include data submissions specifically identified as chub mackerel, or mackerel where the species/type was not specified

	Catch (t)							
	Belize	Belize	Chile	China	Cook Islands	Cuba	EC	EC
Area	5x5 squares	5x5 squares	Includes catch from within national waters of jurisdiction	FAO87 (Various: totals, 5x5 + 1x1)	FAO87	Unspecified	FAO87 (Various: totals, 5x5 + tow by tow)	Unspecified
Species	Chilean jack mackerel	Horse mackerel	Chilean jack mackerel	Chilean jack mackerel	Jack mackerel (<i>Trachurus</i> spp)	Jack mackerel	Chilean jack mackerel	Jack mackerel - unspecified
2008	x		896,103~	143,182			106,665	
2007		11,720	1,302,784	140,582	x		123,511	
2006		481	1,366,770	160,000			62,137	
2005		867	1,430,434	143,000			6,179	
2004		0	1,451,599	131,020				
2003		0	1,421,296	94,690				
2002		0	1,518,994	76,261				
2001		0	1,649,933	20,090				
2000			1,234,299	x				
1999			1,219,689					
1998			1,612,912					
1997			2,917,064					
1996			3,883,326					
1995			4,404,193					
1994			4,041,447					
1993			3,236,244					
1992			3,212,060					7,842
1991			3,020,512			5,769		109,292
1990			2,471,875			31,047		81,909
1989			2,390,117			14,784		11,584
1988			2,138,255			12,335		76,036
1987			1,770,037			34,226		864
1986			1,184,317			43,387		828
1985			1,456,989			42,287		847
1984						24,428		80,848
1983						45,981		40,357
1982						61,016		7,600
1981						50,930		2,029
1980						54,295		7,540
1979								45,495
1978								29,455
1977								1,078
1976								719
1975								680
1974								55
1973								35
1972								
1971								
1970								

~ Catch figures are preliminary

^ Total includes small quantities of unspecified mackerel

X Data not displayed as totals are for less than 3 vessels; Belize chose to display all of their data for 2005 - 2007 irrespective of whether less than 3 vessels were fishing

**Table 3: Annual Catch Data for Chilean Jack, Jack and Horse Mackerel Received to Date
(Part 2 of 2)**

NB: Does not include data submissions specifically identified as chub mackerel, or mackerel where the species/type was not specified

	Catch (t)								
	Faroe Islands	Japan	Korea	Russian Fedn.		Ukraine			Vanuatu
Area	FAO87	FAO87	FAO87 (EEZ and High Seas)	FAO81	FAO87	FAO81	FAO81 (NZ EEZ)	FAO87	FAO87
Species	Chilean Jack Mackerel	Chilean Jack Mackerel	Chilean jack mackerel	Greenback horse mackerel	Chilean jack mackerel	Chilean jack mackerel	Jack and horse mackerels nei (mix of <i>Trachurus declivis</i> , <i>T. murphyi</i> , <i>T. novaezelandiae</i>)	Chilean jack mackerel	Chilean jack mackerel
2008	x		12,036						
2007	38,700^		10,940	0	0		22,067		112,501
2006			10,474	0	0				129,535
2005			x	0	7,040				77,356
2004			7,438	0	62,300		22,600		94,685
2003			2,010	0	7,540		25,016		53,959
2002				0	0		5,667		
2001				0	0		7,577		
2000				0	0		12,213		
1999		7		223	0		15,306		
1998				52	0		9,309		
1997				886	0		9,740		
1996				2,280	0		13,093		
1995				1,602	0		8,990		
1994				1,804	0		4,192		
1993				4,260	0		7,937		
1992				2,892	32,000		2,878	2,736	
1991				127,000	591,800	7,838	319	65,126	
1990		157		67,518	1,122,297	3,574	214	115,049	
1989		x		56,543	1,096,292	2,292		109,695	
1988		x		58,797	938,288	868		104,006	
1987		x		107,329	818,628	5,274		89,116	
1986		x		146,200	785,000	5,778		81,275	
1985		5,229		133,300	837,700	7,313		100,464	
1984		x		22,300	1,056,600			162,524	
1983		x		10,651	866,500	1,982		140,185	
1982				4,953	735,898	631		82,633	
1981		x		0	771,630			85,517	
1980				13	544,970		6	58,677	
1979		x		0	532,209			90,371	
1978		1,667	x	254	49,220			4,783	
1977		2,273		710	0				
1976		x		0	0				
1975				0	0				
1974				0	0				
1973				0	0				
1972				0	5,500				
1971				0	0				
1970				0	0				

~ Catch figures are preliminary

^ Total includes small quantities of unspecified mackerel

X Data not displayed as totals are for less than 3 vessels; Belize chose to display all of their data for 2005 - 2007 irrespective of whether less than 3 vessels were fishing

Figure 1: Annual Catch Data for Chilean Jack, Jack and Horse Mackerel Received to Date

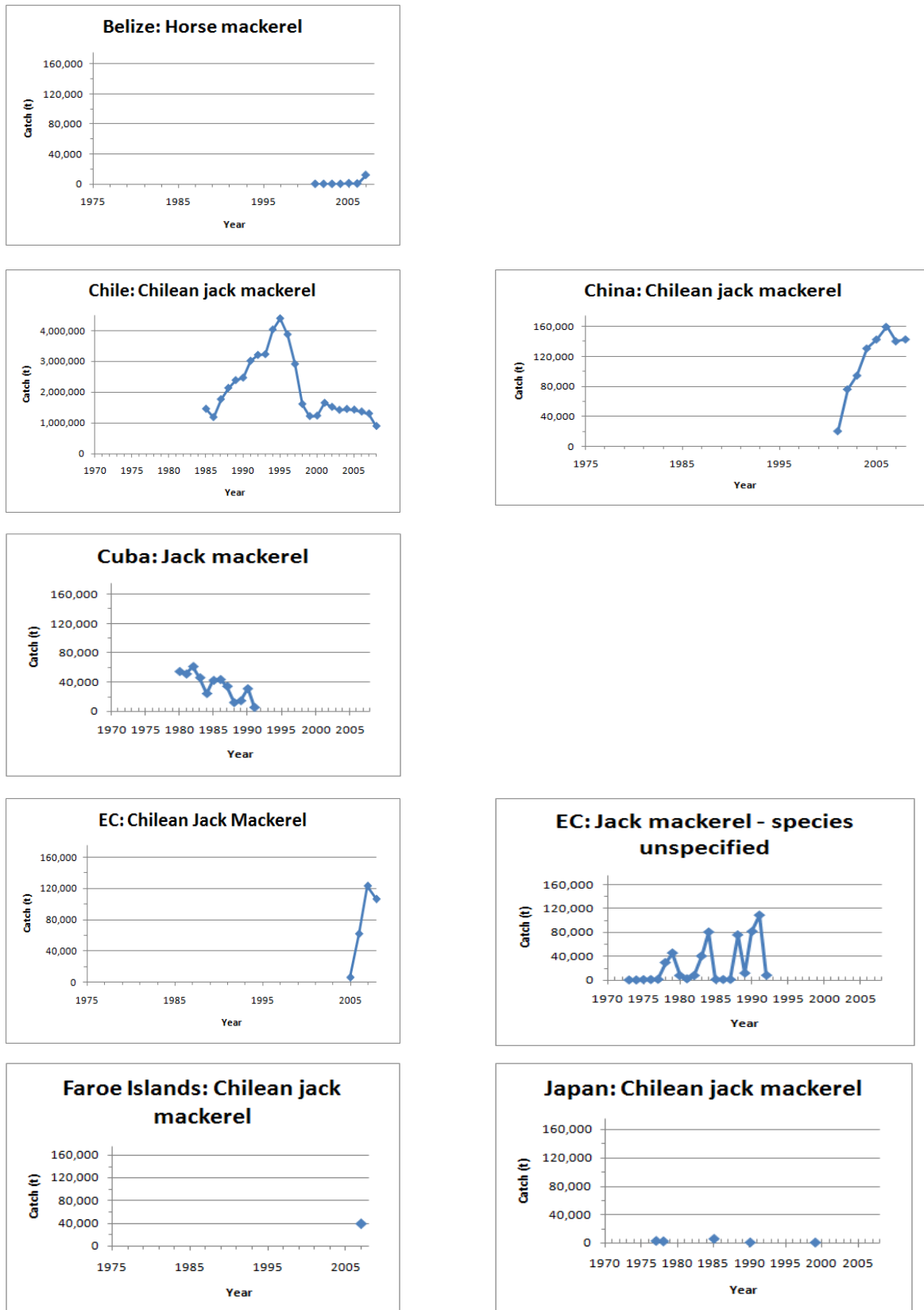


Figure 1 continued: Annual Catch Data for Chilean Jack, Jack and Horse Mackerel Received to Date

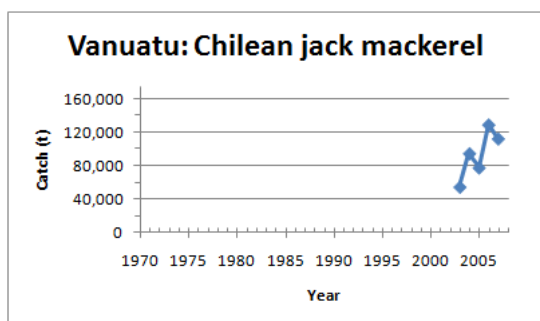
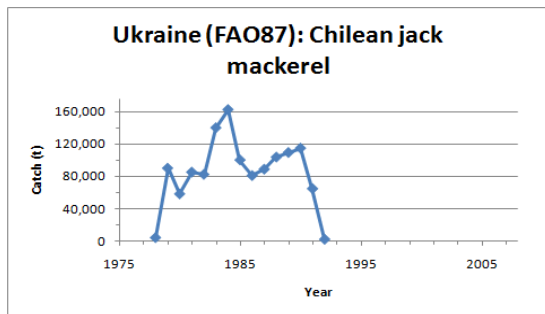
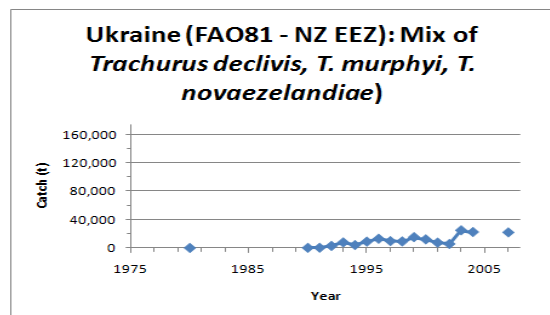
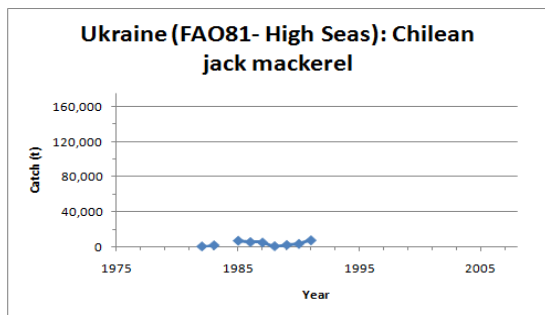
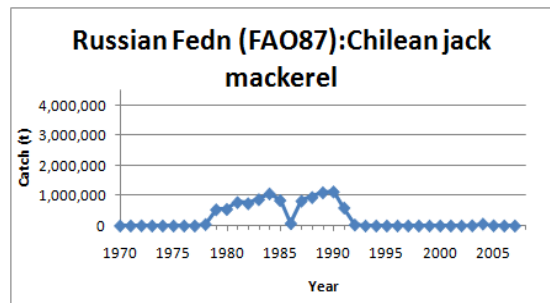
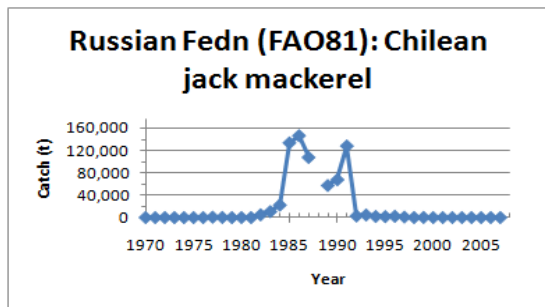
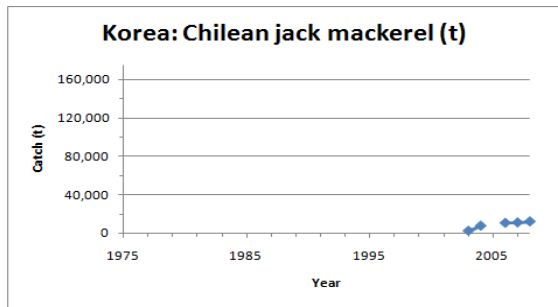


Table 4: Summary of 2007 Chilean Jack, Jack and Horse Mackerel Data Received in 5x5 Degree Squares (t)

Participant 5x5 Degree Square	BELIZE		CHINA		COOK ISLANDS		EUROPEAN COMMUNITY		KOREA	
	No. Vessels Operating	Horse Mackerel (t)	No. Vessels Operating	Jack Mackerel (t)	No. Vessels Operating	Jack and Horse Mackerel	No. Vessels Operating	Chilean Jack Mackerel (t)	No. Vessels Operating	Chilean Jack Mackerel
00-05S, 80-85W					1	x				
05-10S, 85-90W					2	x				
10-15S, 80-85W							1	x		
10-15S, 85-90W							1	x		
15-20S, 85-90W							1	x		
20-25S, 85-90W							1	x		
20-25S, 80-85W							2	x		
25-30S, 100-105W							1	x		
25-30S, 95-100W	1	78								
25-30S, 85-90W	1	99					3	271	1	x
25-30S, 80-85W							2	x		
25-30S, 75-80W							1	x		
30-35S, 125-130W									1	x
30-35S, 110-115W	1	259	11	935					3	473
30-35S, 105-110W	1	458	11	149			4	3,320	3	704
30-35S, 100-105W	1	76	11	5,659			6	14,209	3	1,418
30-35S, 95-100W	1	260	11	1,700			5	2,220	3	227
30-35S, 90-95W	1	790	11	14,340			7	9,317	3	847
30-35S, 85-90W	1	765	11	17,623			6	6,058	3	1,283
30-35S, 80-85W									1	x
25-30S, 80-85W							1	x		
35-40S, 140-145W									1	x
35-40S, 130-135W									1	x
35-40S, 110-115W									1	x
35-40S, 105-110W	1	181							3	138
35-40S, 100-105W	1	187					5	1,837	3	404
35-40S, 95-100W	1	1,459	11	4,320			4	2,586	3	1,351
35-40S, 90-95W	1	1,272	11	3,149			7	11,850	2	x
35-40S, 85-90W	1	756	11	4,236			5	9,048	2	x
35-40S, 80-85W	1	1,893	11	25,943			4	20,804	1	x
35-40S, 75-80W	1	221	11	3,393			3	2,134	1	x
40-45S, 85-90W			11	8,162			3	8,833		
40-45S, 80-85W	1	2,778	11	46,697			3	25,954	1	x
40-45S, 75-80W			11	3,044			2	x		
45-50S, 80-85W	1	190	11	263						
45-50S, 85-90W			11	969						
60-65S, 85-90W									2	x
65-70S, 95-100W									1	x
65-70S, 140-145W									1	x
65-70S, 110-115W									1	x
65-70S, 105-110W									1	x
TOTALS		11,720		140,582		x		123,511		10,913

Belize chose to display all of their data, irrespective of whether less than 3 vessels were fishing

Note re Detailed 2008 Jack Mackerel Data:

The European Community and Korea provided jack mackerel tow by tow data for 2008, and China provided 1x1 degree square data by month for 2008.

These data have not yet been incorporated into 5x5 degree square block tables for 2008.

Table 5: Summary of 2008 5x5 Chilean Jack Mackerel Data Received from Belize

5x5 Degree Square		No. Vessels Operating	Chilean Jack Mackerel (t)
25-30S	95-100W	1	x
30-35S	90-95W	1	x
30-35S	85-90W	1	x
35-40S	95-100W	1	x
35-40S	85-90W	1	x
35-40S	80-85W	1	x
35-40S	90-95W	1	x
40-45S	85-90W	1	x
40-45S	80-85W	1	x
Total		1	x

X Data not displayed as less than 3 vessels were fishing in that 5x5 degree square at that time

Table 6: Summary of Historical 5x5 Jack Mackerel Data Received from China

YEAR	2000	2001	2002	2003	2004	2005	2006
No. vessels operating	1	5	11	11	14	13	12
5x5 Square							
30-35S,95-100W	-	-	-	460	-	464	4100
30-35S, 90-95W	-	-	-	14952	11749	21131	16324
30-35S,85-90W	-	4760	21427	14935	27399	30140	37998
30-35S, 80-85W	-	3385	3656	1258	3470	-	-
35-40S,100-105W	-	-	-	-	-	195	-
35-40S,95-100W	-	-	-	2411	14337	9937	9618
35-40S, 90-95W	-	-	-	7620	7242	21614	10008
35-40S,85-90W	-	80	11857	13455	5434	19902	5005
35-40S, 80-85W	x	10855	14746	19174	21754	10910	17598
35-40S, 75-80W	x	1010	9508	2117	-	1222	-
40-45S,95-100W	-	-	-	-	376	2884	641
40-45S, 90-95W	-	-	-	-	652	-	111
40-45S,85-90W	-	-	321	3675	6967	846	8867
40-45S, 80-85W	x	-	-	13461	31640	21921	43963
40-45S,75-80W	x	-	9874	1172	-	1834	5767
45-50S,80-85W	-	-	4872	-	-	-	-
Total	x	20090	76261	94690	131020	143000	160000

Table 7: Summary of Historical (2003 – 2006) 5x5 Jack Mackerel Data Received from Korea

a) 2006

5x5 Degree Square	No. Vessels Operating	Chilean Jack Mackerel (t)
30-35S,95-100W	1	x
30-35S,90-95W	3	1,881
30-35S,85-90W	3	4,149
35-40S,95-100W	1	x
35-40S,90-95W	3	933
35-40S,85-90W	2	x
35-40S,80-85W	2	x
35-40S,75-80W	2	x
40-45S,80-85W	1	x
Total		10,474

b) 2005

5x5 Degree Square	No. Vessels Operating	Chilean jack Mackerel (t)
30-35S,85-90W	2	x
30-35S,90-95W	2	x
30-35S,95-100W	2	x
35-40S,95-100W	2	x
35-40S,90-95W	2	x
35-40S,85-90W	2	x
35-40S,80-85W	1	x
35-40S,75-80W	1	x
40-45S,85-90W	1	x
Total		x

c) 2004

5x5 Degree Square	No. Vessels Operating	Chilean Jack Mackerel (t)
25-30S,90-95W	1	x
30-35S,95-100W	2	x
30-35S,90-95W	2	x
30-35S,85-90W	2	x
30-35S,80-85W	1	x
35-40S,95-100W	2	x
35-40S,90-95W	2	x
35-40S,85-90W	1	x
35-40S,80-85W	2	x
40-45S,85-90W	1	x
40-45S,80-85W	1	x
40-45S,75-80W	1	x
Total		7,418

d) 2003

5x5 Degree Square	No. Vessels Operating	Chilean Jack Mackerel (t)
30-35S,95-100W	1	x
30-35S,90-95W	3	899
30-35S,85-90W	2	x
30-35S,80-85W	1	x
35-40S,90-95W	1	x
35-40S,85-90W	1	x
35-40S,80-85W	1	x
Total		1,998

Table 8: Annual Catch Data of Other Mackerels (including chub and mackerel where species not specified) Received to Date

	Catch (t)												
	Belize	Chile	EC		Faroe Islands	Japan	Korea	New Zealand	Russian Fedn.		Ukraine		Vanuatu
Area	5x5 squares	Includes catch from within national waters of jurisdiction	Unspecified		FAO87	FAO87	FAO87 (EEZ and High Seas)	5x5	FAO81	FAO87	FAO81 (includes some catch from NZ EEZ)	FAO87	FAO87
Species	Mackerel-species not specified	Chub mackerel - <i>Scomber japonicus</i>	Chub mackerel	Mackerel-species not specified	<i>Scomber japonicus</i>	Chub mackerel	Chub mackerel	<i>Scomber australasicus</i>	Pacific mackerel	Chub mackerel	<i>Scomber australasicus</i>	<i>Scomber japonicus</i>	Chub mackerel
2008	x	133,026~	5,879		x		920						
2007	1,361	297,189	9,067				1,240		0	0			7,705
2006		345,673	5,989				1,460	0	0	0			3,352
2005		280,756	211				x	5	0	0			1,819
2004		577,336					708	3	0	0	0		3,137
2003		572,052					39	0	0	0	0		1,553
2002		343,371						5	0	0	0		
2001		365,031							0	0	0		
2000		95,789							0	0	0		
1999		120,123					1		0	0	0		
1998		71,769							0	0	0		
1997		211,649							0	0	0		
1996		146,649							0	0	0		
1995		110,210							75	0			
1994		27,171							204	0	0		
1993		96,023							326	0	0		
1992		72,364		36						0	0	17	
1991		191,723		14,396					828	18,257	0	1,063	
1990		192,948		98,123		<0.5			100	74,168		2,085	
1989		39,328		109,556					700	28,160	25	999	
1988		26,423		90,655					x	34,805		519	
1987		32,799		82,955					50	3,835	1	79	
1986		1,584		79,454					0	1,920		647	
1985		11,314		81,361					50	38,275		39	
1984				69,055		1			0	71,952		78	
1983				39,792					0	4,416			
1982				44,628					0	41,878		565	
1981				78,261					0	41,500		4,708	
1980				48,129					0	48,300		1,282	
1979				93,311		1			0	5,800		522	
1978				13,273		<0.5			0	1,773		122	
1977				596					0	0			
1976				97					0	0			
1975				7					0	0			

~ Catch figures are preliminary

X Data not displayed as totals are for less than 3 vessel

(Belize chose to display all of their data for 2007, irrespective of whether less than 3 vessels were fishing)

Figure 2: Annual Catch Data of other Mackerels (including chub and mackerel where species not specified) Received to Date

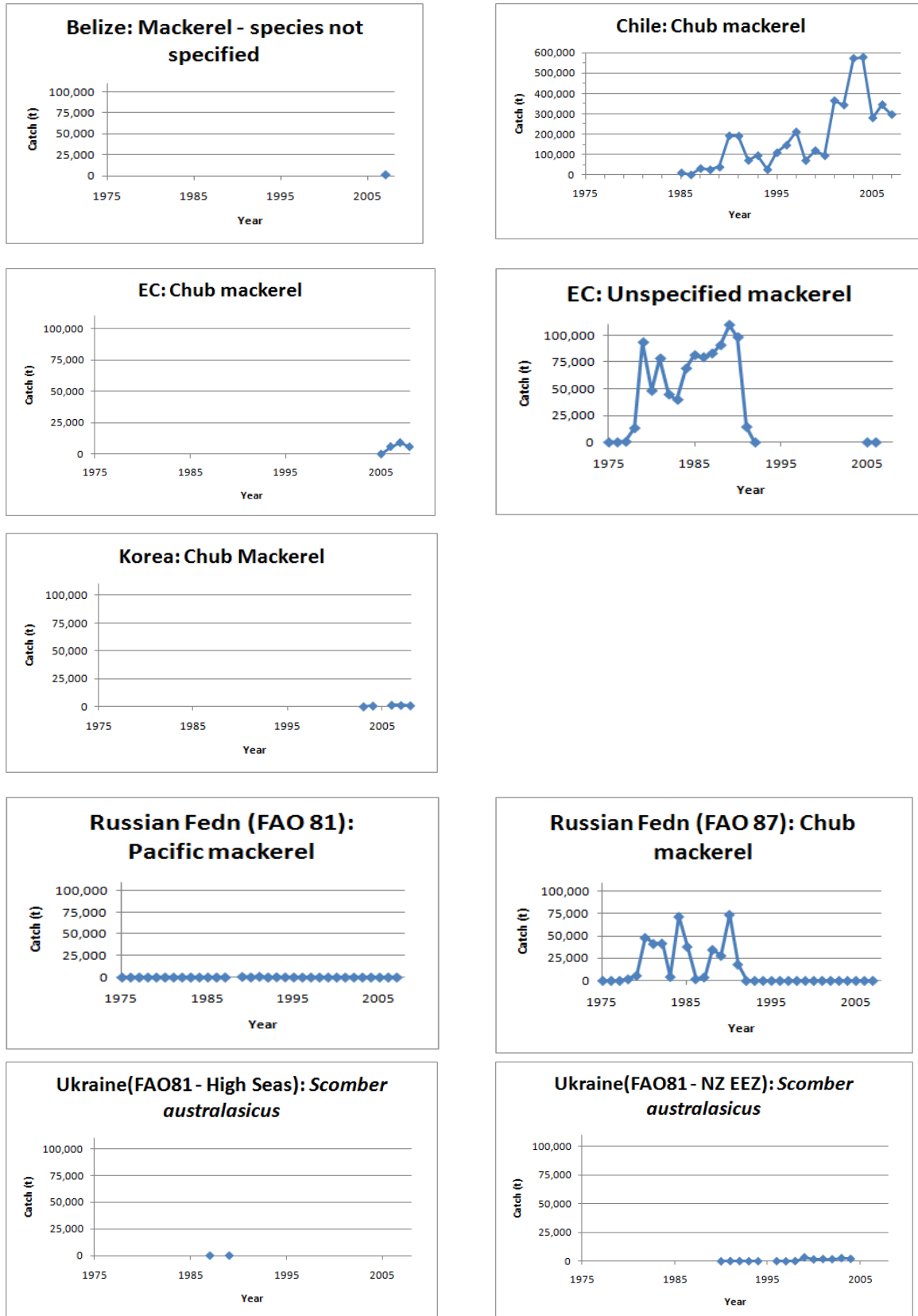


Figure 2 continued: Annual Catch Data of other Mackerels (including chub and mackerel where species not specified) Received to Date

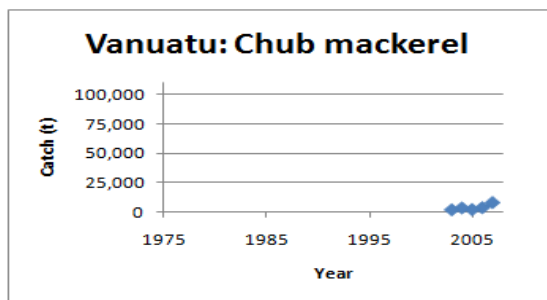
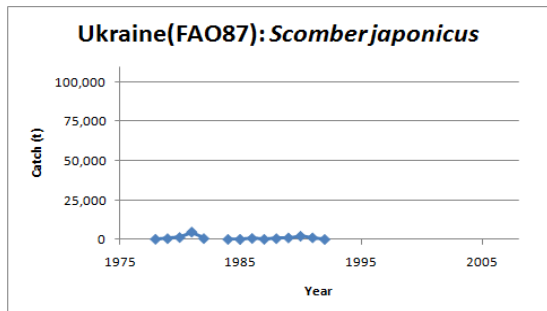


Table 9: Summary of 2007 Mackerel Data (including chub and unspecified mackerel, *i.e.* species not specified) Received in 5x5 Degree Squares (t)

Participant	BELIZE	BELIZE	EC	EC	Korea	Korea
5x5 Degree Square	No. Vessels Operating	Mackerel - species not specified (t)	No. Vessels Operating	<i>Scomber japonicus</i> (t)	No. Vessels Operating	Chub Mackerel (t)
10-15S, 80-85W						
15-20S, 85-90W						
20-25S, 85-90W						
20-25S, 80-85W						
25-30S, 100-105W						
25-30S, 95-100W	1	2				
25-30S, 85-90W	1	0	2	x	1	x
25-30S, 80-85W			1	x		
25-30S, 75-80W			1	x		
30-35S, 125-130W					1	x
30-35S, 110-115W	1	48			3	60
30-35S, 105-110W	1	78	4	268	3	65
30-35S, 100-105W	1	5	6	1,513	3	147
30-35S, 95-100W	1	22	4	87	3	30
30-35S, 90-95W	1	43	6	594	3	70
30-35S, 85-90W	1	51	4	328	3	128
30-35S, 80-85W					1	x
25-30S, 80-85W			1	x		
35-40S, 140-145W					1	x
35-40S, 130-135W					1	x
35-40S, 110-115W					1	x
35-40S, 105-110W	1	16			3	12
35-40S, 100-105W	1	51	3	203	3	50
35-40S, 95-100W	1	123	3	49	3	168
35-40S, 90-95W	1	282	5	1,061	2	x
35-40S, 85-90W	1	116	4	522	2	x
35-40S, 80-85W	1	175	4	1,741	1	x
35-40S, 75-80W	1	33	3	93	1	x
40-45S, 85-90W			3	468		
40-45S, 80-85W	1	298	3	2,002	1	x
40-45S, 75-80W			2	x		
45-50S, 80-85W	1	15				
45-50S, 85-90W						
65-70S, 140-145W					1	x
65-70S, 110-115W					1	x
65-70S, 105-110W					1	x
65-70S, 95-100W					1	x
60-65S, 85-90W					2	x
TOTALS		1,361		9,067		1,234

X Data not displayed as less than 3 vessels were fishing in that 5x5 degree square at that time

Belize chose to display all of their data, irrespective of whether less than 3 vessels were fishing

Note: that the European Community and Korea have provided tow by tow chub mackerel data for 2008 and that these data have yet to be incorporated into 5x5 degree square block tables.

Table 10: Summary of 2008 5x5 Chub Mackerel Data Received from Belize

5x5 Degree Square		No. Vessels Operating	Chub Mackerel - <i>Scomber japonicus</i> (t)
25-30S	95-100W	1	x
30-35S	85-90W	1	x
35-40S	90-95W	1	x
35-40S	85-90W	1	x
35-40S	80-85W	1	x
40-45S	80-85W	1	x
40-45S	85-90W	1	x
Total		1	x

X Data not displayed as less than 3 vessels were fishing in that 5x5 degree square at that time

Table 11: Summary of Historical (2003 – 2006) 5x5 Chub Mackerel Data Received from Korea

a) 2006

5x5 Degree Square	No. Vessels Operating	Chub Mackerel (t)
30-35S,95-100W	1	x
30-35S,90-95W	3	199
30-35S,85-90W	3	595
35-40S,95-100W	1	x
35-40S,90-95W	3	128
35-40S,85-90W	2	x
35-40S,80-85W	2	x
35-40S,75-80W	2	x
40-45S,80-85W	1	x
Total		1,460

b) 2005

5x5 Degree Square	No. Vessels Operating	Chub Mackerel (t)
30-35S,85-90W	2	x
30-35S,90-95W	2	x
30-35S,95-100W	2	x
35-40S,95-100W	2	x
35-40S,90-95W	2	x
35-40S,85-90W	2	x
35-40S,80-85W	1	x
35-40S,75-80W	1	x
40-45S,85-90W	1	x
Total		x

c) 2004

5x5 Degree Square	No. Vessels Operating	Chub Mackerel (t)
25-30S,90-95W	1	x
30-35S,95-100W	2	x
30-35S,90-95W	2	x
30-35S,85-90W	2	x
30-35S,80-85W	1	x
35-40S,95-100W	2	x
35-40S,90-95W	2	x
35-40S,85-90W	1	x
35-40S,80-85W	2	x
40-45S,85-90W	1	x
40-45S,80-85W	1	x
40-45S,75-80W	1	x
Total		707

d) 2003

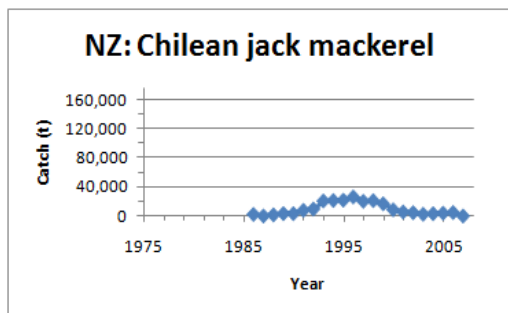
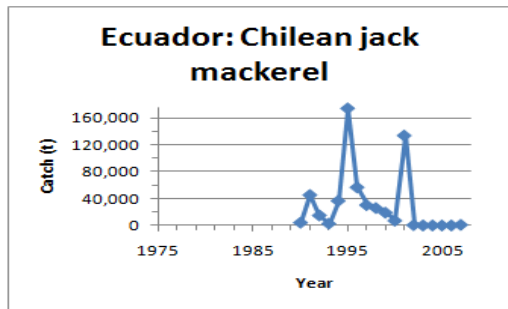
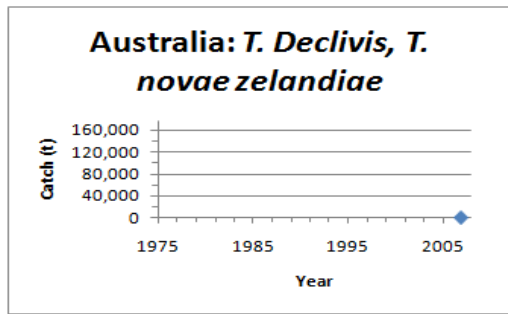
5x5 Degree Square	No. Vessels Operating	Chub Mackerel (t)
30-35S,95-100W	1	x
30-35S,90-95W	3	10
30-35S,85-90W	2	x
30-35S,80-85W	1	x
35-40S,90-95W	1	x
35-40S,85-90W	1	x
35-40S,80-85W	1	x
Total		39

4.0 Mackerel Data Summaries: Fish Taken Entirely Within EEZs

Table 12: Annual Catch Data of EEZ Mackerel Received to Date

	Catch (t)		
	Australia	Ecuador	New Zealand
Area	EEZ	EEZ	EEZ
Species	Jack mackerel (<i>T. Declivis</i> , <i>T. novae zelandiae</i>)	Chilean jack mackerel	Chilean jack mackerel
2007	680	927	
2006			4,645
2005			3,759
2004			3,083
2003			2,401
2002		604	4,470
2001		133,969	5,345
2000		7,122	8,226
1999		19,072	16,203
1998		25,900	20,376
1997		30,302	19,569
1996		56,782	25,331
1995		174,393	21,013
1994		36,575	20,604
1993		2,673	19,938
1992		15,022	9,301
1991		45,313	7,519
1990		4,144	3,154
1989			3,167
1988			1,488
1987			0
1986			2,228

Figure 3: Annual Catch Data of EEZ Mackerel Catch Received to Date



5.0 Squid Data Summary: Fish Taken Entirely or Partially within SPRFMO Area

Table 13: Annual Catch Data for Squids Received to Date

Area	Catch (t)												
	Belize	Chile	China	EC	Japan	Korea	New Zealand	Russian Fedn.	Russian Fedn.	Ukraine		Chinese Taipei Fishing Entity	Chinese Taipei Fishing Entity
Species	5x5 square	Includes catch from within national waters of jurisdiction	FAO87	Unspecified	FAO87	FAO87 (EEZ and High Seas)	5x5	FAO81	FAO87	FAO81 (NZ EEZ)	FAO87	FAO87	NZ EEZ
	Squid - species not specified	Squid - Jumbo Flying squid	Squid - Jumbo Flying squid	Squid - species not specified	Squid - Jumbo Flying squid	Squid - species not specified	Squid (OMZ, UHX, UHU)	Squid - species not specified	Squid - species not specified	Squids: <i>Nototodarus sloani</i> , <i>N.gouldi</i>	Squid - Jumbo Flying squid	Squid - Jumbo Flying squid	Squid - <i>N. solani</i>
2008		102171~					0						
2007	0	124,389	49,963				<0.5	0	0				
2006	0	219,800	62,000		323		<0.5	0	0			18,349	3,304
2005	825	296,953	86,000		1,633	x	<0.5	0	0			15,976	3,831
2004	681	175,134	205,600		4,615	13,574	<0.5	0	0	20,122		39,450	0
2003	479	15,191	81,000		4,510	4,722	16	0	0	10,379		23,009	0
2002	588	5,589	50,483		33,978	23,979	<0.5	0	0	11,230		12,064	0
2001	453	3,476	17,770		1,132	11,517		0	0	8,623		0	0
2000		9			1,704	20,822		0	0	2,872		0	0
1999		6			x	19,728		1,352	0	1,462		0	761
1998		5						1,907	0	5,321		0	3,974
1997					x	3,359		5,809	0	7,955		0	6,620
1996		2			644	12,896		8,365	0	4,136		0	14,747
1995					37	35,719		17,004	0	6,630		0	8,284
1994		205			2,698	69,664		22,098	0	10,428		0	0
1993		7,442			3,579	62,887		15,600	0	5,546		0	0
1992		9,400			1,874	43,022		28,767	0	2,932	1	1,698	0
1991		445		1,075	50	24,015		17,331	23,240	699	398		0
1990				6,497	x	3,465		21,654	7,860		142		0
1989				2,003	x			13,413	380				0
1988					x			x	0				0
1987								9,135	0				850
1986								15,818	0				1,253
1985								18,267	130				8,343
1984								19,076	10				17,900
1983								20,319	0				16,377
1982								18,118	10				13,100
1981								12,902	60				8,147
1980								15,506	0	6,986			3,497
1979								14,308	45	6,191			1,601
1978								3,112	0				2,163
1977								26,837	0				1,797
1976								0	0				1,379
1975								0	0				254
1974								0	0				95
1973								0	0				109
1972								0	<0.5				
1971								0					
1970								0					
1969								100					

~ Catch figures are preliminary

X Data not displayed as totals are for less than 3 vessels; Belize chose to display all of their data, irrespective of whether less than 3 vessels were fishing

Figure 4: Squid Annual Catch Data Received to Date

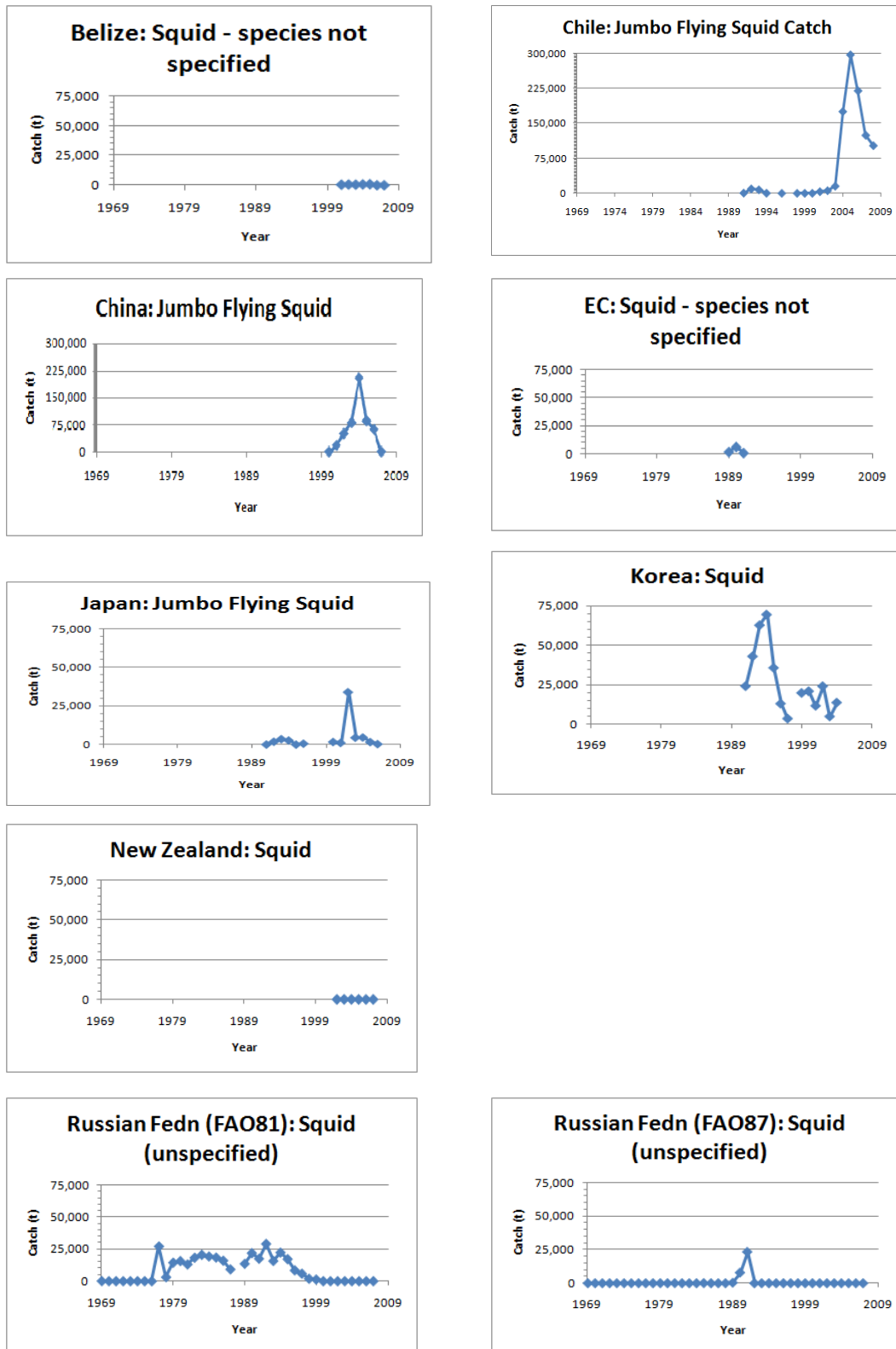
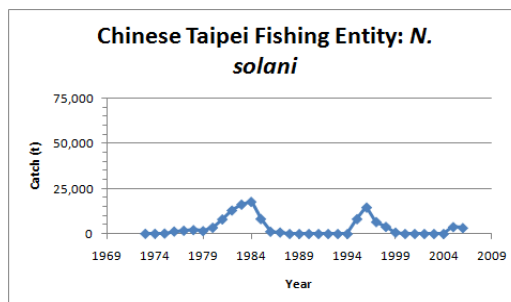
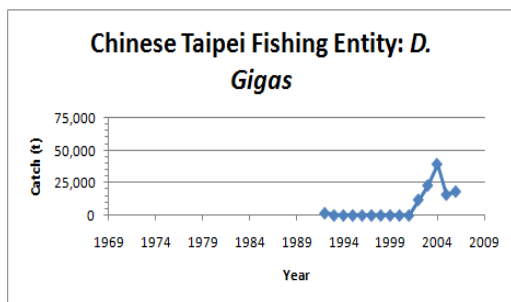
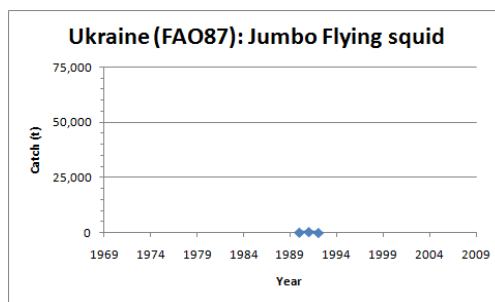
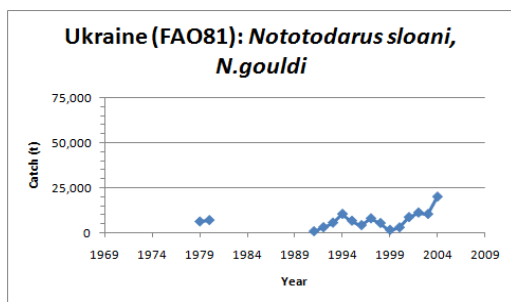


Figure 4 continued: Squid Annual Catch Data Received to Date



Note: In addition to the 5x5 data shown in Table 12 below, Belize provided 5x5 catch data for squid for the period 2001 – 2005, New Zealand provided 5x5 squid catch data for the period 2002 – 2007 (0 catch in 2008), and China provided 5x5 squid catch data for the period 2003 – 2006.

Table 14: Japan- Jumbo Flying Squid 5x5 Degree Square Catch Data: 1988 - 2006

Year	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	
5x5 Degree Square																				
0°00' - 4°59'S	80°00' - 84°59'W				5		96			x					x					
0°00' - 4°59'S	85°00' - 89°59'W	x	x		23	x	795	2	4	x										
0°00' - 4°59'S	90°00' - 94°59'W	x	x						x											
0°00' - 4°59'S	95°00' - 99°59'W	x					x		0											
0°00' - 4°59'S	100°00' - 104°59'W				x															
0°00' - 4°59'S	105°00' - 109°59'W				x															
5°00' - 9°59'S	80°00' - 84°59'W	x	x		x	296	81	957	x	6	x		x	x	22,982	2,257	506	176	x	
5°00' - 9°59'S	85°00' - 89°59'W	x	x		x	98	x	237	x	71	x				382	868			x	
5°00' - 9°59'S	90°00' - 94°59'W	x	x		x	x		x	x	x			x							
5°00' - 9°59'S	95°00' - 99°59'W	x						x	x	x			x							
5°00' - 9°59'S	100°00' - 104°59'W				x			x	x	x										
10°00' - 14°59'S	75°00' - 79°59'W					72	x	x	x	x			965	x	325	22	111		x	
10°00' - 14°59'S	80°00' - 84°59'W	x		x	x	1,057	2,336	375	x	32	x		x	360	715	2,102	1,008	1,386	707	168
10°00' - 14°59'S	85°00' - 89°59'W	x				x		22	x	63				x						
10°00' - 14°59'S	95°00' - 99°59'W										x		x							
10°00' - 14°59'S	100°00' - 104°59'W										x									
15°00' - 19°59'S	70°00' - 74°59'W										x									x
15°00' - 19°59'S	75°00' - 79°59'W			x	37	108	129	35		x			379	308	8,143	350	1,139		x	
15°00' - 19°59'S	80°00' - 84°59'W	x		x	1	191	952	163	x	x			x	x	x	x	1,461		x	x
15°00' - 19°59'S	85°00' - 89°59'W	x						x												
20°00' - 24°59'S	70°00' - 74°59'W						x				x									
20°00' - 24°59'S	75°00' - 79°59'W	x		x		x	x													
20°00' - 24°59'S	80°00' - 84°59'W					x	x													
20°00' - 24°59'S	85°00' - 89°59'W					x														
25°00' - 29°59'S	70°00' - 74°59'W						x													
25°00' - 29°59'S	75°00' - 79°59'W					x														
25°00' - 29°59'S	80°00' - 84°59'W			x	x															
25°00' - 29°59'S	85°00' - 89°59'W			x		x														
30°00' - 34°59'S	75°00' - 79°59'W															x				
Total Catch (t)		x	x	x	50	1,874	3,579	2,698	37	644	x		x	1,704	1,132	33,978	4,510	4,615	1,633	323

x Data not displayed as less than 3 vessels were fishing in that 5x5 degree square at that time

6.0 Orange Roughy Data Summary: Fish Taken Entirely or Partially within SPRFMO Area

In addition to the data shown in Table 13 below, Belize provided 5x5 degree square data for orange roughy for the years 2003 – 2007. These data are not displayed for confidentiality reasons as the data was supplied for one vessel. New Zealand has provided 5x5 orange roughy catch data for the years 2002 – 2008.

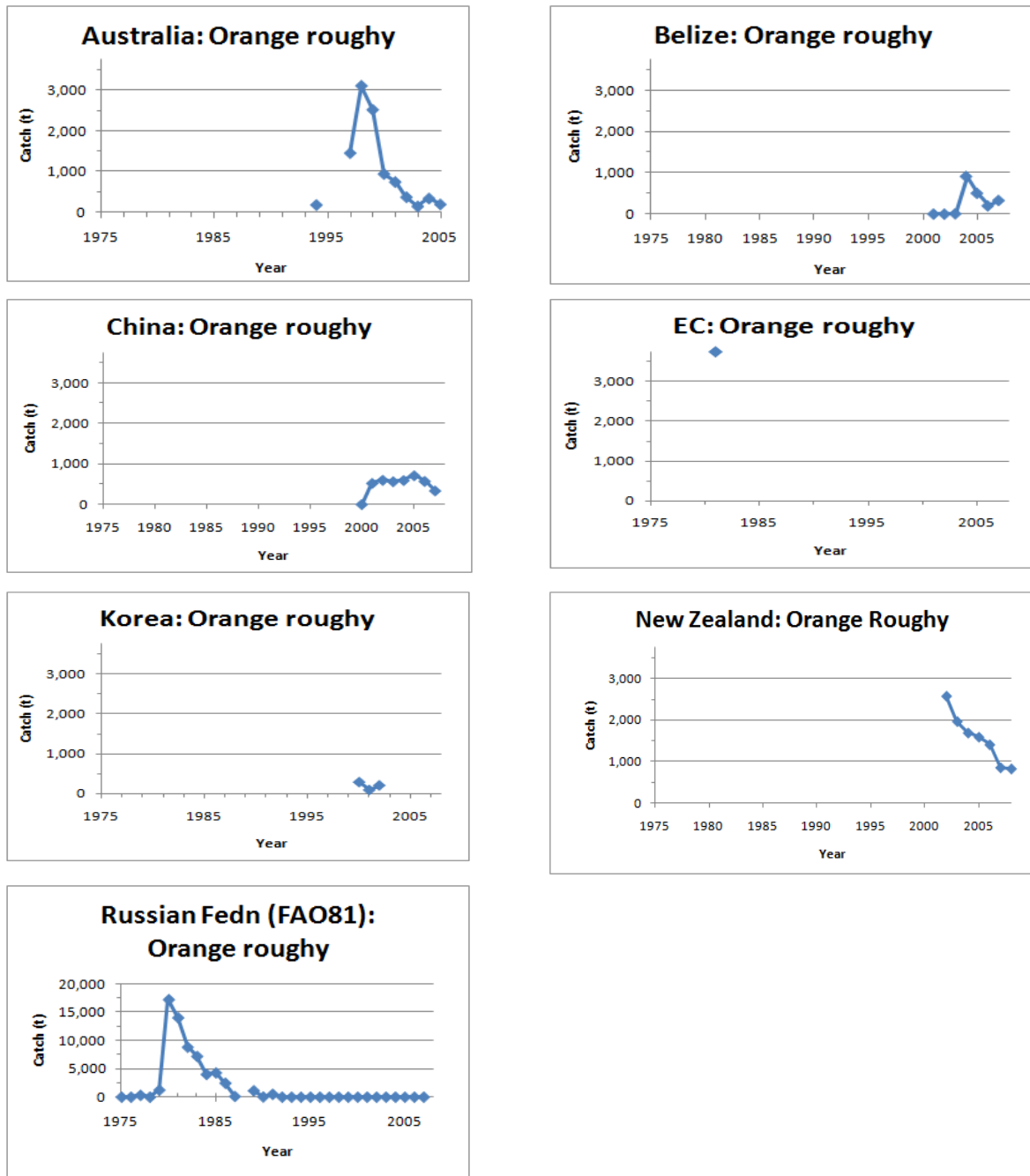
Table 15: Annual Catch Data for Orange Roughy Received to Date

Year	Catch (t)								
	Australia	Belize	China	EC	Korea	New Zealand	Russian Fedn.	Ukraine	
Area	23.5-60S, 120-180E	5x5 square	FAO87	Unspecified	FAO81 (EEZ and HS)	5x5	FAO81	FAO81 (outside NZ EEZ)	FAO81 (NZ EEZ)
2008						837			
2007		332	336			866	0		
2006	166	200	570		x	1,415	0		
2005	207	506	710		x	1,597	0		
2004	351	914	592		x	1,697	0	49	223
2003	156	9	562		x	1,973	0	164	12
2002	383	0	597		208	2,578	0		
2001	751	0	520		94		0		195
2000	948				288		0	53	49
1999	2,514				x		0		
1998	3,098						0		
1997	1,458						0		
1996	x						0		
1995	x						0		
1994	192						0		
1993	x						0		
1992	x						0		
1991	x						506		
1990	x						36		
1989	x						1,132		
1988	x						x		
1987	x						130		
1986							2,475		
1985							4,306		
1984							4,028		
1983							7,229		
1982							8,860		
1981				3,748			14,076		
1980							17,300		
1979							1,251		
1978							0		
1977							319		
1976							0		
1975							0		
1974							0		
1973							0		
1972							0		
1971							0		
1970							0		
1969							0		

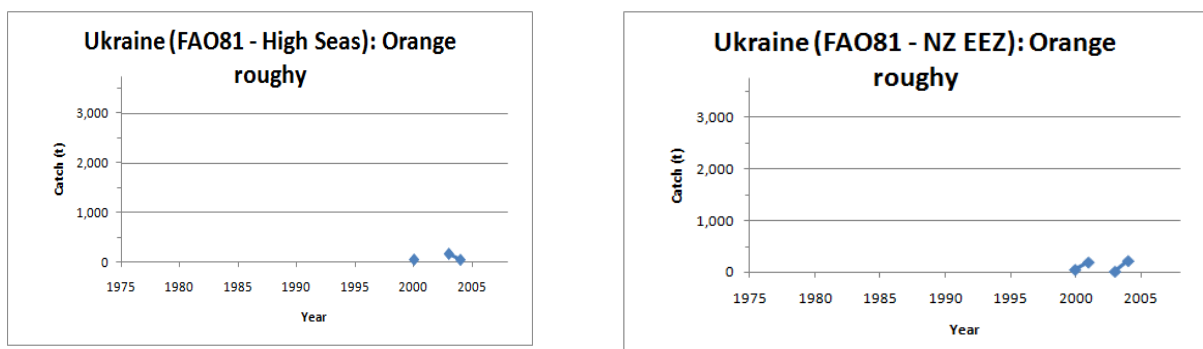
X Data not displayed as totals are for less than 3 vessels

Belize chose to display all of their data, irrespective of whether less than 3 vessels were fishing

Figure 5: Annual Catch Data for Orange Roughy Received to Date



Note the different scale for the figure above



7.0 Alfonsino Data Summary: Fish Taken Entirely or Partially within SPRFMO Area

In addition to the data shown in Table 14 below, Belize provided 5x5 degree square data for alfonsino for the years 2004 – 2007. These data are not displayed for confidentiality reasons as the data was submitted from a single vessel. New Zealand has provided 5x5 alfonsino catch data for the years 2002 – 2008.

Table 16: Annual Catch Data for Alfonsino Received to Date

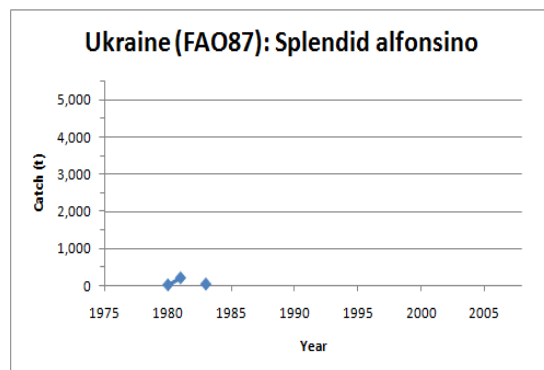
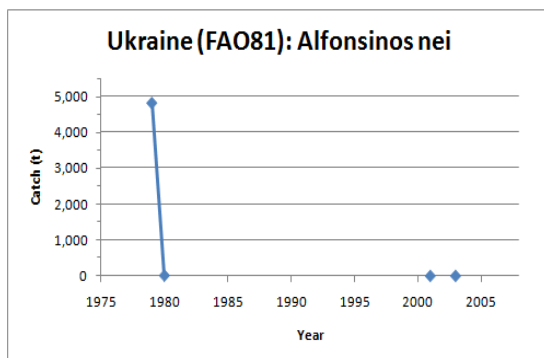
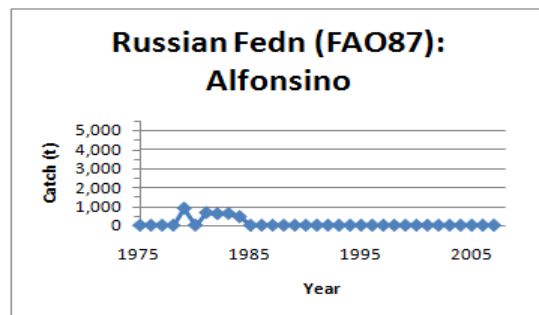
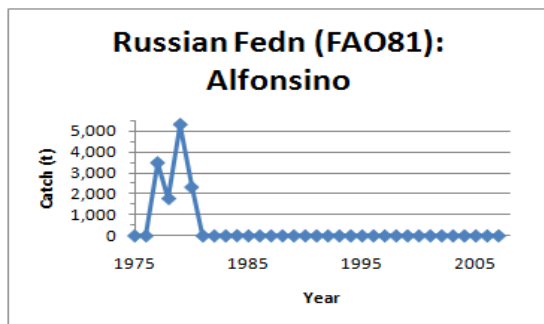
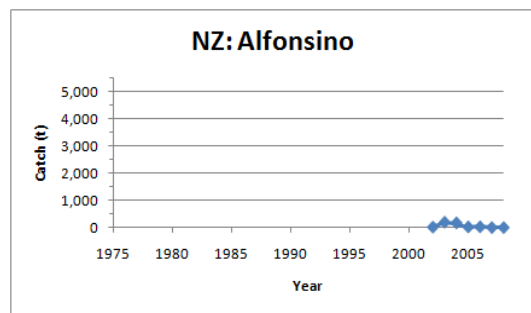
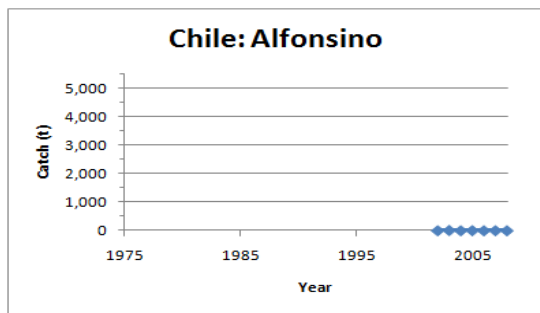
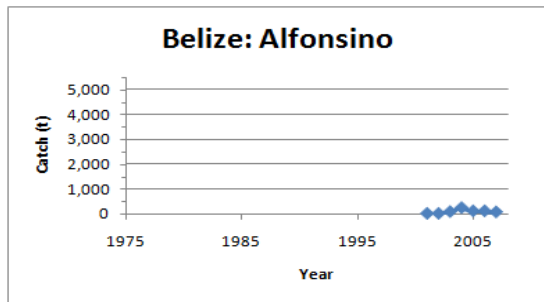
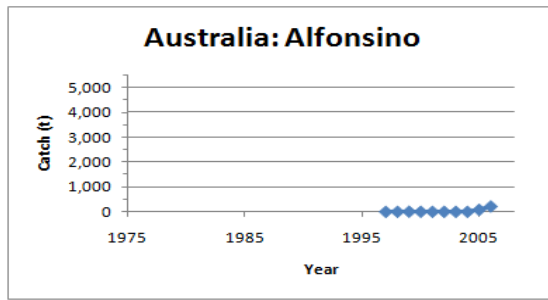
	Catch (t)								
	Australia	Belize	Chile	EC	New Zealand	Russian Fedn.	Russian Fedn.	Ukraine	Ukraine
Area	23.5-60S, 120-180E	5x5 square	Nazca Ridge	5x5 square	5x5 square	FAO81	FAO87	FAO81 (NZ EEZ)	FAO87
Species								Alfonsinos nei	Splendid alfonsino
2008				x	3				
2007		61		x	4	0	0		
2006	209	101			28	0	0		
2005	81	102	5		26	0	0		
2004	1	229			85	0	0		
2003	2	73	11		94	0	0	11	
2002	3	0	2		17	0	0		
2001	1	0	>0.5			0	0	9	
2000	4					0	0		
1999	8					0	0		
1998	1		144			0	0		
1997	1					0	0		
1996	0					0	0		
1995	0					0	0		
1994	0					0	0		
1993	0					0	0		
1992	0					0	0		
1991	0					0	0		
1990	0					0	0		
1989	0					0	0		
1988	0					0	0		
1987	0					0	0		
1986						0	0		
1985						0	0		
1984						9	458		
1983						0	633		32
1982						0	620		
1981						0	676		198
1980						2,325	12	21	12
1979						5,323	907	4,804	
1978						1,783	0		
1977						3,491	0		
1976						0	0		
1975						0	0		

X Data not displayed as totals are for less than 3 vessels

Belize chose to display all of their data, irrespective of whether less than 3 vessels were fishing

Note that Belize also provided 5x5 degree square data for boarfish for 2007.

Figure 6: Annual Catch Data for Alfonsino Received to Date



8.0 Summary of the Vessel Details Data Received to Date

Table 17: Vessel Details Data Received to Date (part 1 of 3)

PARTICIPANT	Vessel Type	Has information been received for vessels authorised to fish in the Area?	No. Vessels for which Details Received	Data Provided According to Vessel Standard?	Years Data Provided For	Fisheries/ species	Comments
Australia	Other vessels	Yes	7	No	2009	Unknown	These vessels are authorised to fish in the high seas; information was obtained from the AFMA public register
	Other vessels	Yes	6	No	2008	2 trawl and 4 non-trawl high seas permits were issued	These vessels were authorised to fish in the high seas; information was obtained from the AFMA public register
	Pelagic fishing vessels (excluding squid vessels)	NA	NA	NA	2007		No non-squid vessels were actively fishing in the pelagic mackerel fishery
	Other vessels	Yes	24	No	2007	6 trawl and 18 non-trawl high seas permits were issued	These vessels were authorised to fish in the high seas; information was obtained from the AFMA public register
	Other vessels	Yes	Between 6-14 trawlers and 5-6 non-trawling vessels per annum	No	1987-2006		Numbers of vessels only provided
Belize	Pelagic fishing vessels (excluding squid vessels)	Yes	8	Yes	2009	Mackerel fisheries	The information received is for vessels authorised to fish during 2009; no new vessels are authorised to fish in 2009
	Other vessels	Yes	1	Yes	2009	Orange roughy, alfonsino and boarfish fisheries	This is the same trawler which it was previously reported was in the process of being de-registered from Belize
	Pelagic fishing vessels (excluding squid vessels)	Yes	10	Yes	2007, 2008	Mackerel fisheries	1 midwater trawler actively fishing in the area 2007 and 2008; 9 midwater trawlers authorised to fish but not actively fishing in the area during 2007 and 2008. GT
	Other vessels a)	Yes	1	Yes	2007, 2008	Orange roughy, alfonsino and boarfish fisheries	Vessel details provided for 1 deep water trawler which is in the process of being de-registered from Belize. GT
	Vessels: general	Yes	13 vessels	Yes		Mix of mackerel, squid, orange roughy, alfonsino and grenadier fisheries	Vessel details provided for vessels fishing in the area each year between 2001 - 2006, plus those in the area prior to 2001
Chile	Pelagic fishing vessels (excluding squid vessels)	Yes	138	No	2007	Pelagic	Vessel names, call signs and total GT only were provided
	Other vessels						

NA Indicates that the participant did not have vessels of that type fishing within the SPRFMO area, and therefore that vessel details were not required to be submitted

Table 17 continued: Vessel Details Data Received to Date (part 2 of 3)

PARTICIPANT	Vessel Type	Has information been received for vessels authorised to fish in the Area?	No. Vessels for which Details Received	Data Provided According to Vessel Standard?	Years Data Provided For	Fisheries/ species	Comments
China	Pelagic fishing vessels (excluding squid vessels)	Yes	11	Yes	2009	Jack mackerel	Details received for 1 new vessel (which replaces 1 previously authorised vessel) GT
	Pelagic fishing vessels (excluding squid vessels)	Yes	11	Yes	2007, 2008	Jack mackerel	GT
	Pelagic fishing vessels (excluding squid vessels)	Yes	12	Yes (except for 1 vessel)	2006	Jack mackerel	GT
	Other vessels	Yes	82	No	2006, 2007	Jumbo flying squid	Some fields missing such as when built, where built, hold capacity. GT
Cook Islands	Pelagic fishing vessels (excluding squid vessels)	Yes	3	No	2007, 2008	Jack and horse mackerel fisheries	Names and GRT info only provided
	Other vessels	Yes	1	No	2007, 2008		Names and GRT info only provided
Cuba	Pelagic fishing vessels (excluding squid vessels)	Yes	Varies between 4 - 18 per annum	No	1980 - 1991	Jack mackerel	Names only provided
	Other vessels						
Ecuador	Pelagic fishing vessels (excluding squid vessels)	NA	NA	NA	NA	NA	NA
(vessels only fishing within the Ecuadorian EEZ)	Other vessels	NA	NA	NA	NA	NA	NA
European Community							
	Pelagic fishing vessels (excluding squid vessels)	Yes	8	Generally	2009	Mackerel	All details provided except for moulded depth, beam and hold capacity. GT
	Other vessels	Yes	8	No	2009	Bottom longline	Key details only provided
	Pelagic fishing vessels (excluding squid vessels)	Yes	7	Generally	2008	Mackerel	All details provided except for moulded depth, beam and hold capacity. GT
	Pelagic fishing vessels (excluding squid vessels)	Yes	8	Generally	2007	Mackerel	All details provided except for moulded depth, beam and hold capacity. GT
Faroe Islands	Pelagic fishing vessels (excluding squid vessels)	Yes	1	No	2008	Mackerel	No vessel details have been supplied
	Pelagic fishing vessels (excluding squid vessels)	Yes	3	Yes	2007		GT
	Other vessels	NA	NA	NA	NA		No other vessels were fishing in the Area, so no more vessel details need to be provided

NA Indicates that the participant did not have vessels of that type fishing within the SPRFMO area, and therefore that vessel details were not required to be submitted

Table 17 continued: Vessel Details Data Received to Date (part 3 of 3)

PARTICIPANT	Vessel Type	Has information been received for vessels authorised to fish in the Area?	No. Vessels for which Details Received	Data Provided According to Vessel Standard?	Years Data Provided For	Fisheries/ species	Comments
Japan							
	Pelagic fishing vessels (excluding squid vessels)	Yes	1	Yes	2009	Midwater trawler	Data is for 1 midwater trawler authorised to fish in 2009
	Other vessels	Yes	6	Yes	2009	Squid	Authorised to fish in 2009
	Pelagic fishing vessels (excluding squid vessels)	Yes	1	Yes	2007, 2008		Data includes 1 midwater trawler authorised to fish, but not actively fishing in the pelagic mackerel during 2007 or 2008. GRT
	Other vessels	Yes	4	Yes	2007, 2008		Data includes 4 squid vessels; unsure which unit of vessel "length" has been provided. GRT
Korea							
	Pelagic fishing vessels (excluding squid vessels)	Yes	3	Yes	2009	Mackerel	These vessels are authorised to fish in 2009. GT
	Other vessels	Yes	2	Yes	2009	Bottom Trawling	
	Pelagic fishing vessels (excluding squid vessels)	Yes	3	Yes	2007, 2008	Mackerel	GT
	Other vessels						
New Zealand							
	Other vessels	Yes	19	Yes	May 09 - April 10	Various high seas fisheries (not mackerel)	GT
	Pelagic fishing vessels (excluding squid vessels)	NA	NA	NA	May 08 - April 09 May 07 - April 08		No non-squid vessels are/were actively fishing in the pelagic mackerel fishery
	Other vessels	Yes	30	Yes	May 08 - April 09	Various high seas fisheries (not mackerel)	GT
	Other vessels	Yes	43	Yes	May 07 - April 08	Various high seas fisheries (not mackerel)	GT
Russian Federation							
	Pelagic fishing vessels (excluding squid vessels)	Yes	5	Yes	2007, 2008		Data includes 3 midwater trawlers which were authorised to fish, but not actively fishing during 2007; 5 vessels were authorised to fish for horse mackerel in 2008. GRT
	Other vessels						
USA							
	Pelagic fishing vessels (excluding squid vessels)	NA	NA	NA	2007, 2008	NA	NA
	Other vessels	NA	NA	NA	2007, 2008	NA	NA
Vanuatu							
	Pelagic fishing vessels (excluding squid vessels)	Yes	4	Yes	2007, 2008, 2009	Mackerel	GRT
	Other vessels						
Chinese Taipei Fishing Entity							
	Pelagic fishing vessels (excluding squid vessels)	NA	NA	NA	NA	NA	No non-squid vessels were actively fishing in the pelagic fishery during 2007 or 2008
	Other vessels	Yes	1	No	2009	Squid	GT = 876.71; some vessel details were missing from the template provided
	Other vessels	Yes	14	No	2008	Squid	No vessel details provided
	Other vessels	Yes	13	No	2007	Squid	No vessel details provided; total of 10159 GT
	Other Vessels	Yes	Between 13 - 29 vessels per year	No	1992 - 2006	Squid	Data not provided on the number of squid vessels per year, only on the range in number of vessels for the period 1992 - 2006

NA Indicates that the participant did not have vessels of that type fishing within the SPRFMO area, and therefore that vessel details were not required to be submitted