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1. Introduction

This paper summarises Annual Catch Totals (for key species) received by the South Pacific Regional Fisheries Organisation (SPRFMO) Secretariat as at 4 December 2018 and for the last 40 years. It updates COMM6-INFO03 and includes earlier information which was submitted to the Interim Secretariat (2007 - 2013) under the Interim Management measures.

Annual catches by fishery

The SPRFMO Convention applies to the high seas of the South Pacific, covering about a fourth of the Earth's high seas areas. Currently, the main commercial resources fished in the SPRFMO Area are Jack mackerel and jumbo flying squid in the Southeast Pacific and, to a much lesser degree, various deep-water species often associated with seamounts in the Southwest Pacific.

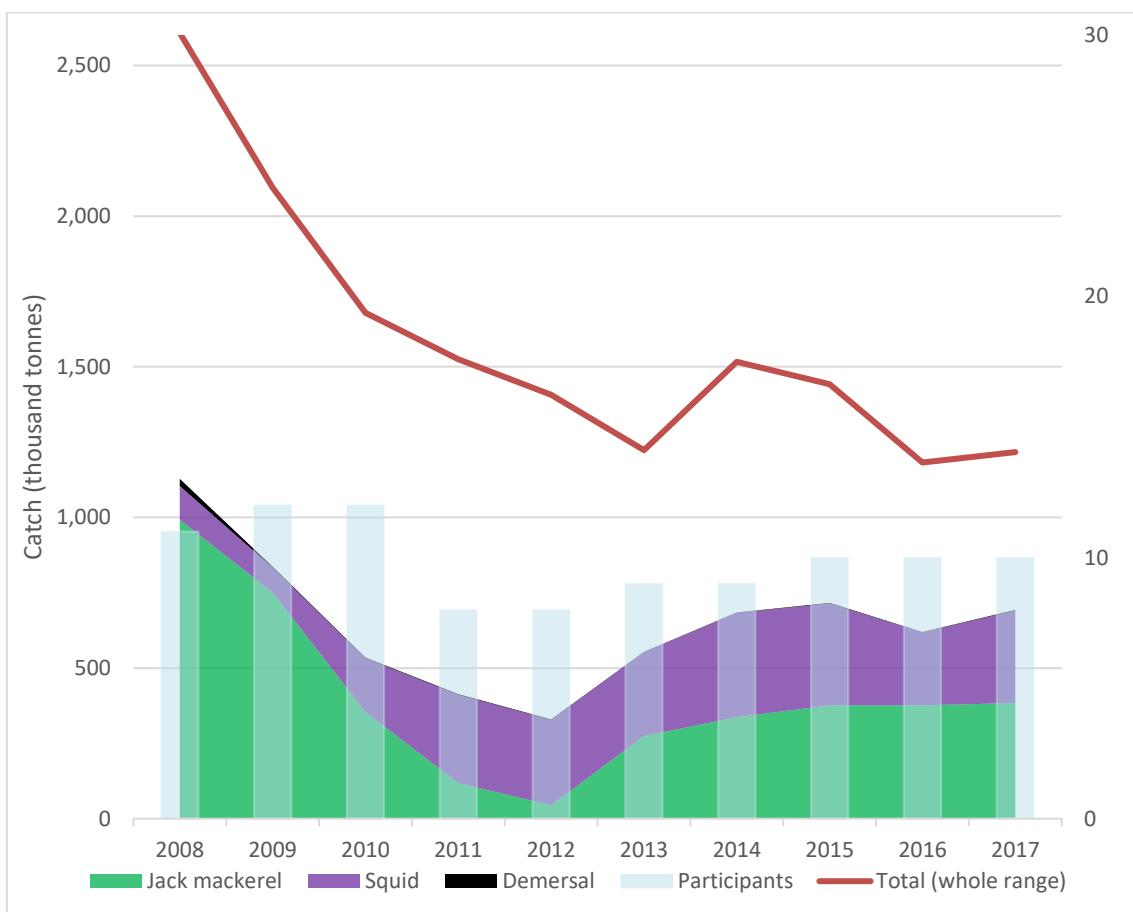


Figure 1.1: Annual catches (t) reported by SPRFMO Members (and CNCPs) assigned to each fishery.

Figure 1.1 above shows catches in the SPRFMO Area for the last 10 years according to the Secretariat's records. Total catches (all species) for the Jack mackerel fishery show a steep decline until 2012 in the area managed by SPRFMO (ie including jack mackerel inside Chile's EEZ) after which a recovery occurred and since 2015 total catches for this fishery have been stable. The high seas South-east Pacific squid fishery has experienced rapid growth and catches have been relatively stable for at least 5 years. The catches for the deepwater demersal fishery are barely noticeable on this scale. For context, total catches of broad interest to SPRFMO (ie. including



jack mackerel/squid catches from neighbouring EEZs) are also displayed. Figure 1.1 also shows that participation in SPRFMO fisheries by Members (and CNCPs) has remained constant throughout this period although the number of vessels operating in each fishery varies considerably (Figure 1.2).

Fishery characteristics

Figure 1.2 shows the different characteristics of each of the SPRFMO fisheries during 2017. The demersal fishery is the smallest by catch volume (~ 1,700 tonnes; note logarithmic scale) and has the highest species diversity (~150 species caught in 2017; secondary axis). The Jack mackerel fishery was around the same size as the monospecific Squid fishery, but with fewer vessels operating under the SPRFMO conservation management measures.

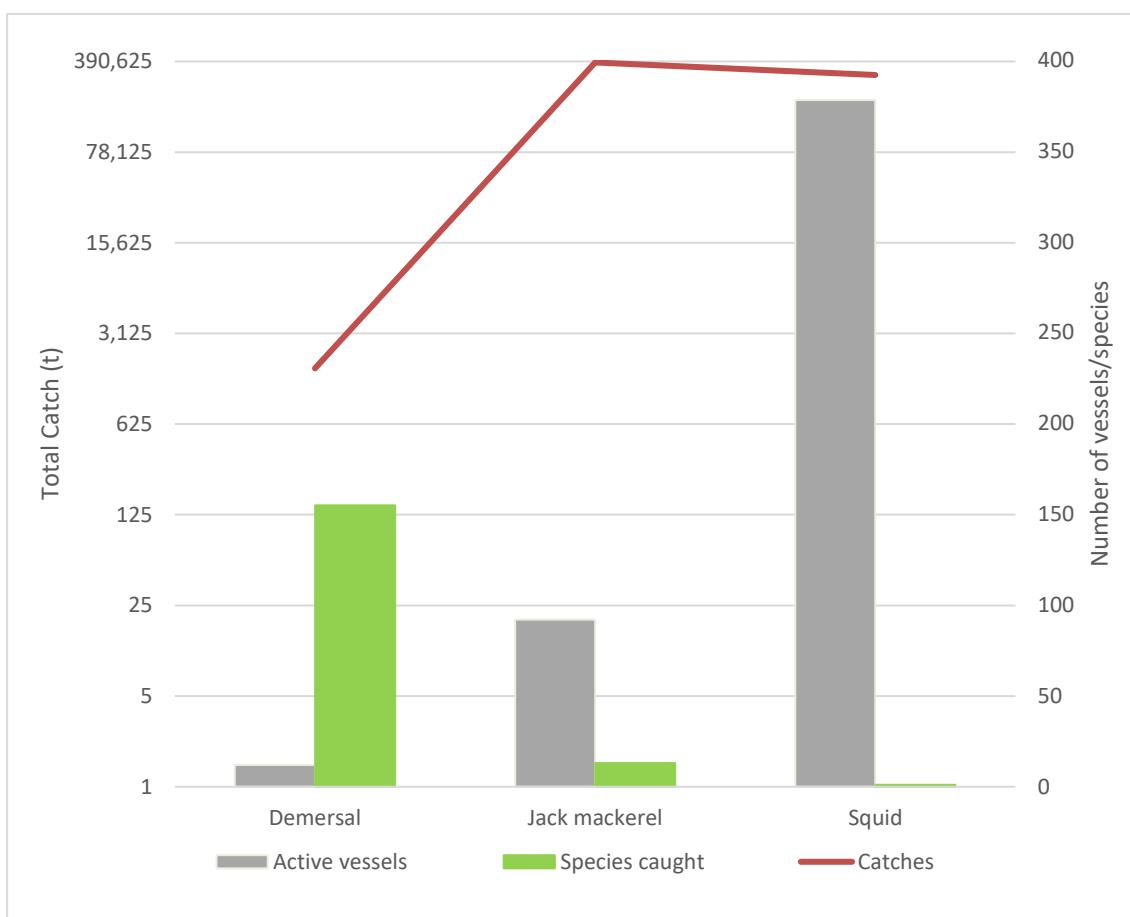


Figure 1.2: Annual catches (t), number of species reported and active fishing vessels for SPRFMO fisheries in 2017.

There are over 340 individual species which have been recorded as being caught in the SPRFMO Area during the most recent 10 years and this paper provides a summary of 26 major species or groups. Species have generally been grouped order to:

- accommodate the use of similar (but different) species codes by different participants and;
- to highlight important taxonomic groups which otherwise might be lost due to numerous small catches of individual species.

For the purposes of this paper the major species groups were defined as during the last 10 years either:



- 1) being targeted in the SPRFMO Area or;
- 2) being one of the top 5 species occurring in a fishery or;
- 3) being present in over 4.5% of the fishing events in a fishery or;
- 4) representing over 0.5% of the total catch in a fishery.

Table 1.1 shows which are the major species (groups) that are were identified using the process described above (refer to Annex 1 for more details concerning makeup of groupings).

Table 1.1: Major species and species groups caught in SPRFMO fisheries during the last 10 years

Fishery	Code	Scientific designation	Common description	No of spp	Targeting frequency	Fishing event Occurrence	Percentage of Total catch
Jack mackerel	CJM	<i>Trachurus murphyi</i>	Chilean jack mackerel	1	96.7	99.3	96.4
Jack mackerel	MAS	<i>Scomber japonicus</i>	Chub mackerel	1	-	40.5	3.4
Jack mackerel	BRZ	Bramidae	Pomfrets, ocean breams	8	-	6.4	0.1
Jack mackerel	VTX	Nomeidae	Driftfishes	2	-	2.4	0.04
Jack mackerel	SKX	Elasmobranchii	Sharks, rays, skates, etc.	46 ¹	-	2.2	0.03
Totals (for fishery)				37 ²	-	-	99.86
Jigging	GIS	<i>Dosidicus gigas</i>	Jumbo flying squid	1	100	100	100
Totals (for fishery)				1	-	-	100
Demersal	ORY	<i>Hoplostethus atlanticus</i>	Orange roughy	1	56.7	57.3	62.6
Demersal	BRX	Berycidae	Alfonsinos, etc.	5	12.0	25.0	16.2
Demersal	MOR	Moridae	Moras	9	-	24.5	0.8
Demersal	BWA	<i>Hyperoglyphe antarctica</i>	Bluenose warehou	1	10.8	23.7	3.4
Demersal	SKX	Elasmobranchii	Sharks, rays, skates, etc.	46 ¹	-	23.3	1.4
Demersal	DGX	Squalidae	Dogfish sharks	20	-	22.6	0.9
Demersal	ORD	Oreosomatidae	Oreo dories	6	0.3	20.0	1.6
Demersal	RTX	Macrouridae	Grenadiers, rattails	7	-	15.8	0.8
Demersal	HAU	<i>Polypriion</i> spp	Hapuka	3	4.6	14.0	2.2
Demersal	EDW	<i>Pseudopentaceros</i> spp	Pelagic armourheads	6	-	12.4	1.2
Demersal	SCO	Scorpaenidae	Scorpionfishes	7	-	11.4	0.2
Demersal	MOW	<i>Nemadactylus</i> spp	Morwongs	4	0.8	9.4	1.8
Demersal	TRC	Trachichthyidae	Slimeheads	4	-	5.8	0.3
Demersal	AMX	Seriola spp	Amberjacks	4	0.1	5.6	1.5
Demersal	GEP	Gempylidae	Snake mackerels, escolars	6	-	5.5	0.1
Demersal	APO	Apogonidae	Cardinalfishes, etc.	5	0.5	4.7	1.2
Demersal	BSX	Serranidae	Groupers, seabasses	19	-	4.6	0.2
Demersal	SNX	Lutjanidae	Snappers, jobfishes	16	-	3.5	0.6
Demersal	EMP	Lethrinidae	Emperors(=Scavengers)	6	-	1.8	1.6
Demersal	OPH	Ophidiidae	Cusk-eels, brotulas	1	0.2	1.3	0.1
Demersal	TOT	<i>Dissostichus</i> spp	Antarctic toothfishes	2	0.2	0.1	0.3
Totals (for fishery)				308	-	-	99.30

This paper does not verify catch amounts, nor does it assess the data received with any current Conservation Management Measure.

¹ Does not imply that 46 species are caught in the fishery. Does show that the 46 species of Elasmobranchii listed in Annex 1 have been recorded in the SPRFMO Area.

² Annual catch data for the jack mackerel fishery only contains 8 species codes rather than the 37 found in fishing activity data.



2. Annual reported catches in the South Pacific for *Trachurus* spp (Jack/Horse mackerels)

Table 2.1: Annual catch data – *Trachurus* spp (t)

Participant	Australia	Belize	Chile ³		China	Cook Islands	Cuba	Ecuador
FAO Area	Unknown	87	87	87	87	87	87	87
High seas vs In-zone	EEZ (AUS)	HS	EEZ (CHL)	HS	HS	HS	HS	EEZ (ECU)
Species	<i>Trachurus</i> spp.	<i>T. murphyi</i>	<i>T. murphyi</i>	<i>T. murphyi</i>	<i>T. murphyi</i>	<i>Trachurus</i> spp.	<i>T. murphyi</i>	<i>T. murphyi</i>
2017			341 572	3 173	16 802			54 000
2016			313 403	3 159	20 208			0
2015			228 409	56 805	29 180			289
2014			267 615	3 983	21 155			9
2013			226 006	5 917	8 329	0 ²		3 563
2012			223 322	4 138	13 012	0	0 ⁴	77
2011		0 ²	193 722	53 573	32 862	0	8 ²	69 373
2010		2 240	355 510	109 298	63 606	0		4 613
2009		5 681	491 792	343 135	117 963	0		1 934
2008		15 245	376 370	519 738	143 182	0		0
2007	680	12 585	1 040 167	262 617	140 582	7		927
2006		481	1 251 499	128 442	160 000			0
2005		867	1 158 272	272 162	143 000			0
2004			1 154 890	296 709	131 020			0
2003			975 186	446 110	94 690			0
2002			1 465 912	53 081	76 261			604
2001			1 649 933	0	20 090			133 969
2000			1 233 938	361	2 318			7 122
1999			1 202 512	17 177				19 072
1998			1 594 144	18 768				25 900
1997			2 905 830	11 234				30 302
1996			3 883 326	0				56 782
1995			4 404 193	0				174 393
1994			4 041 447	0				36 575
1993			3 236 244	0				2 673
1992			3 212 060	0			3 196	15 022
1991			3 020 512	0			30 828	45 313
1990			2 471 875	0			41 197	4 144
1989			2 390 117	0				24 486
1988			2 138 255	0				44 209
1987			1 770 037	0				35 980
1986			1 184 317	0				46 833
1985			1 456 989	0				32 258
1984			1 426 301	0				34 008
1983			865 272	0				54 875
1982			1 494 683	0				83 881
1981			1 060 909	0				74 227
1980			562 262	0				83 971
1979			597 511	0				19 000
1978			586 681	0				

³ Chile has submitted annual catch data for *T. murphyi* dating back to 1960.

⁴ Preliminary figure derived from monthly catch returns.



Table 2.1: Continued

Participant	European Union ⁵				Faroe Islands	Japan	Korea
FAO Area	71/77/81	87	87	87	87	87	87
High seas vs In-zone	HS + EEZ	EEZ (PER)	HS	Unknown	HS	HS + EEZ	HS
Species	<i>Trachurus</i> spp.	<i>T. murphyi</i>	<i>T. murphyi</i>	<i>T. murphyi</i>	<i>T. murphyi</i>	<i>T. murphyi</i>	<i>T. murphyi</i>
2017			15 129		0		1 235
2016			11 962		0		6 430
2015			27 955		0		5 749
2014			20 539		0		4 078
2013			10 101		0		5 267
2012			0		0 ²	0 ²	5 492
2011			2 248		0 ²		9 253
2010			67 497		11 643	0 ²	8 183
2009			111 921		20 213	0	13 759
2008			108 174		22 919		12 600
2007			123 523		38 700 ⁶		10 940
2006			62 137				10 474
2005			6 187				9 126
2004							7 438
2003							2 010
2002							
2001							
2000							
1999						7	
1998							
1997							
1996							
1995							
1994							
1993							
1992				7 842			
1991	12 752			109 292			
1990	6 160			80 874		157	
1989	5 571			102 980		701	
1988	2 633			75 122		6 871	
1987			82 955			8 815	
1986			79 454			6 835	
1985			81 361			5 229	
1984			178 877			3 871	
1983			79 698			1 694	
1982			51 710				
1981		1 215	78 152			29	
1980		5 295	46 387				
1979		43 701	60 135			120	
1978	7	5	4 308			1 667	403

⁵ Lithuanian catches are included within both European Union and Russian Federation annual catch data for years prior to the dissolution of the former Soviet Union.

⁶ The Faroe Islands 2007 Figure includes small quantities of unspecified mackerel.

⁷ Figure not displayed as data is from less than 3 vessels and has not yet been made public.



Table 2.1: Continued

Participant	New Zealand ⁸			Peru ⁹		Russian Federation ^{3, 6, 10, 11}		
FAO Area	81	81	81	87	87	81	87	87
High seas vs In-zone	EEZ (NZL)	EEZ (NZL)	EEZ (NZL)	EEZ (PER)	HS	unknown	EEZ (PER)	HS
Species	<i>T. murphyi</i>	<i>T. declivis</i>	<i>T. novaezelandia</i>	<i>T. murphyi</i>	<i>T. murphyi</i>	<i>T. declivis</i>	<i>T. murphyi</i>	<i>T. murphyi</i>
2017				8 813				3 188
2016				15 087	0			0
2015				22 158	0			2 561
2014				74 528	2 557			
2013				77 022	2 670			0
2012				187 292	5 346			0 ²
2011				257 241	674			8 229 ²
2010	3 303	22 591	14 984	17 559	40 516			12
2009	3 964	21 820	14 390	74 694	13 326			9 113 ¹³
2008	6 500	26 231	14 664	169 537				4 800
2007	4 186	25 923	16 265	254 426		0		0
2006	5 253	16 873	14 226	277 568		0		0
2005	6 730	15 564	23 442	80 663		0		7 040
2004	6 184	21 335	15 650	187 369		0		62 300
2003	6 538	17 548	13 663	217 734		0		7 540
2002	7 486	14 831	9 986	154 219		0		0
2001	7 916	9 805	11 768	723 733		0		0
2000	8 677	10 033	3 844	296 579		0		0
1999	18 058	13 412	2 889	184 679		223		0
1998	20 993	6 229	8 796	386 946		52		0
1997	21 543	5 119	8 374	649 751		886		0
1996	26 386	6 212	10 133	438 736		2 280		0
1995	19 678	7 775	8 898	376 600		1 602		0
1994	22 434	14 917	4 934	196 771		1 804		0
1993	22 046	13 901	13 336	130 681		4 260		0
1992	12 664	12 447	12 576	96 660		2 892		32 000
1991	8 674	12 174	12 880	136 337		127 000	47 172	544 628
1990	4 698	11 650	10 859	191 139		67 518	116 052	1 006 245
1989	2 164	14 529	6 677	140 720		56 543	105 239	991 053
1988	1 589	14 538	8 027	118 076		58 797		938 288
1987	0	10 064	9 365	46 304		107 329		818 628
1986	2 206	7 395	7 894	49 863		146 200		785 000
1985				87 466		133 300	48 708	788 992
1984				184 333		22 300	98 340	958 260
1983				76 825		10 651	34 847	831 653
1982				50 013		4 953		735 898
1981				37 875				771 630
1980				123 380		13		544 970
1979				151 591				532 209
1978				386 793		254		49 220

⁸ Catches of *Trachurus* spp made by Ukrainian vessels operating within the New Zealand EEZ are included within New Zealand, Russian Federation (years < 1992) and Ukrainian annual catch data.

⁹ Peru has submitted annual catch data for *T. murphyi* dating back to 1939.

¹⁰ Russian Federation figures pre-2009 have been proportioned between the High Seas and Peru's EEZ using SWG-09-INF-06.

¹¹ Ukraine operations prior to 1992 were conducted under the flag of the former Soviet Union.

¹² 2010 Annual catch data was provided for a single vessel (the *Lafayette*) however it has not been included, pending receipt of operational fishing information.

¹³ The Russian Federation 2009 figure was taken by 5 of the 6 vessels that were present in the Area.



Table 2.1: Continued

Participant	Ukraine ^{6,9}			Vanuatu
FAO Area	81	81	87	87
High seas vs In-zone	EEZ (NZL)	HS	unknown	HS
Species	<i>Trachurus</i> spp.	<i>T. murphyi</i>	<i>T. murphyi</i>	<i>T. murphyi</i>
2017				0
2016				15 563
2015				21 227
2014				15 324
2013				14 809
2012				16 068
2011				7 617
2010				45 908
2009				79 942
2008				100 066
2007	22 067			112 501
2006				129 535
2005				77 356
2004	22 600			94 685
2003	25 016			53 959
2002	5 667			
2001	7 577			
2000	12 213			
1999	15 306			
1998	9 309			
1997	9 740			
1996	13 093			
1995	8 990			
1994	4 192			
1993	7 937			
1992	2 878		2 736	
1991	319	7 838	65 126	
1990	214	3 574	115 049	
1989		2 292	109 695	
1988		868	104 006	
1987		5 274	89 116	
1986		5 778	81 275	
1985		7 313	100 464	
1984			162 524	
1983		1 982	140 185	
1982		631	82 633	
1981			85 517	
1980	6		58 677	
1979			90 371	
1978			4 783	



Table 2.2: Preliminary catches in the South- East Pacific for *Trachurus murphyi*
(Monthly catch returns; Jan – Oct-Nov 2018)

Participant	FAO Area	High seas vs In-zone	2018
Chile	87	ANJ	374 667
Ecuador	87	ANJ	0
Peru	87	ANJ	53 303
Chile	87	HS	975
China	87	HS	24 366
European Union	87	HS	9 691
Faroe Islands	87	HS	0
Korea	87	HS	3 717
Peru	87	HS	0
Russian Federation	87	HS	4 689
Vanuatu	87	HS	0
Total (t)			471 419

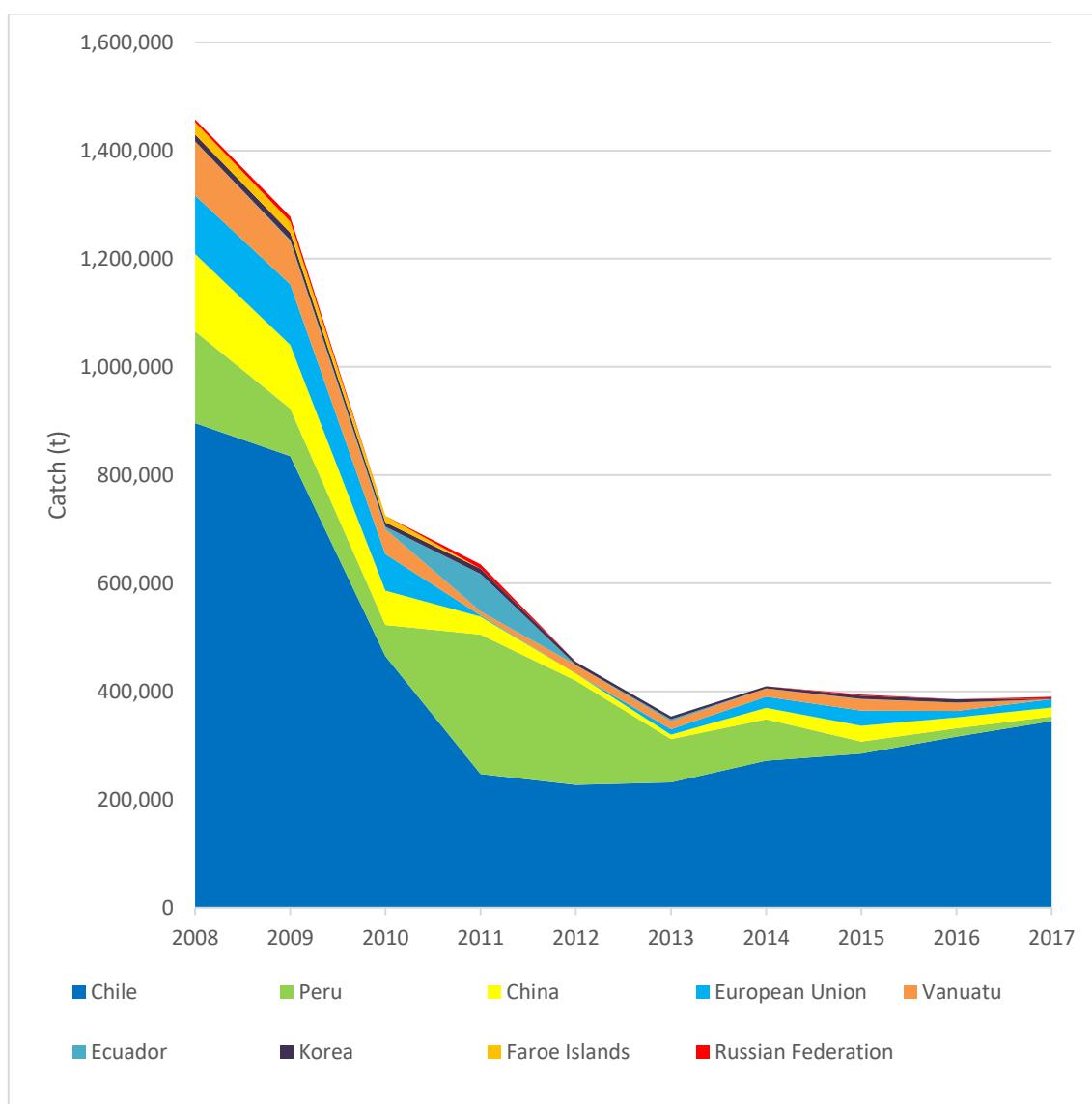


Figure 2.1: Annual reported catches in the South-East Pacific – Jack mackerel

3. Annual reported catches in the South Pacific for *Scomber* spp (Mackerels)Table 3.1: Annual catch data – *Scomber* spp (t)

Participant	Belize	Chile		China	Ecuador	Faroe Islands	Japan
FAO Area	87	87	87	87	87	87	87
High seas vs In-zone	HS	EEZ (CHL)	HS	HS + EEZ	HS	EEZ (ECU)	HS
Species	<i>S. japonicus</i>						
2017		64 705	251		604		
2016		88 900	790		1 615		
2015		43 835	1 820		705		
2014		24 135	31		608		
2013		31 193	431		173		
2012		24 120	199		226		
2011		23 077	2 979		666 ¹		
2010	21	94 723	936		2 583 ¹	52 751	2
2009	295	136 516	21 936			36 679	2
2008	1 104	87 316	45 702			21 758	2
2007	966	233 697	63 492			43 171	
2006		345 491	23 295			37 664	
2005				280 756		115 406	
2004				577 336		51 806	
2003				572 052		33 272	
2002				343 371		17 074	
2001				365 031		85 248	
2000				95 789		83 923	
1999				120 123		28 307	1
1998				71 769		44 716	
1997				211 649		192 181	
1996				146 649		79 484	
1995				110 210		63 577	
1994				27 171		38 991	
1993				96 023		50 980	
1992				72 364		25 651	
1991				191 723		55 023	
1990				192 948		78 639	
1989				39 328		141 333	
1988				26 423		255 548	
1987				32 799		149 302	
1986				1 584		274 852	
1985				11 314		397 863	
1984						396 913	1
1983						252 667	
1982						589 375	
1981						448 088	
1980							
1979							1
1978							

¹ Preliminary figure derived from monthly catch returns only.² Figure not displayed as data is from less than 3 vessels and has not yet been made public.



Table 3.1: Continued

Participant	European Union						Korea	Vanuatu
FAO Area	71/77	87	87	87	87	Unknown	87	87
High seas vs In-zone	HS + EEZ	HS + EEZ	HS	HS	Unknown	HS	HS	HS
Species	<i>Scomber</i> spp	<i>S.</i> <i>japonicus</i>	<i>Scomber</i> spp	<i>S.</i> <i>japonicus</i>	<i>S. japonicus</i>	<i>S. japonicus</i>	<i>S.</i> <i>japonicus</i>	<i>S.</i> <i>japonicus</i>
2017				1 321			191	0
2016						680	486	1 145
2015				801			82	604
2014				718			21	484
2013				226			111	296
2012							0	193
2011						1	24	24
2010						679	84	676
2009						5 168	716	4 901
2008						5 879	968	8 945
2007						9 067	1 240	7 705
2006						5 989	1 460	3 352
2005						211	381	1 819
2004							708	3 137
2003							39	1 553
2002								
2001								
2000								
1999								
1998								
1997								
1996								
1995								
1994								
1993								
1992				36				
1991					1 644			
1990					1 938			
1989	47				1 610			
1988					316			
1987				864				
1986				828				
1985				848				
1984			20	716				
1983			37	414				
1982			54	464				
1981		109		814				
1980		3 522		465				
1979		34 356		614				
1978	2	2		45				

² Figure not displayed as data is from less than 3 vessels and has not yet been made public.



Table 3.1: Continued

Participant	Peru		Russian Federation			Ukraine		
FAO Area	87	87	81	87	87	81	81	87
High seas vs In-zone	EEZ (PER)	HS	Unknown	HS	Unknown	EEZ (NZL)	HS	Unknown
Species	<i>S. japonicus</i>	<i>S. japonicus</i>	<i>S. australasicus</i>	<i>S. japonicus</i>	<i>S. japonicus</i>	<i>S. australasicus</i>	<i>S. australasicus</i>	<i>S. japonicus</i>
2017		0		37				
2016		1 122		0				
2015				463				
2014								
2013		19						
2012								
2011								
2010								
2009				535				
2008	92 989			387				
2007	62 387		0		0			
2006	102 322		0		0			
2005	52 895		0		0			
2004	62 255		0		0	2 165		
2003	93 384		0		0	2 843		
2002	32 698		0		0	1 849		
2001	176 202		0		0	2 040		
2000	73 263		0		0	1 677		
1999	527 729		0		0	3 457		
1998	401 903		0		0	214		
1997	206 183		0		0	9		
1996	49 221		0		0	156		
1995	44 259		75		0			
1994	44 115		204		0	133		
1993	29 504		326		0	94		
1992	17 939		0		970	213		17
1991	17 304		828		18 257	224		1 063
1990	60 776		0		74 168	2		2 085
1989	32 042		0		28 160		25	999
1988	25 554		95		34 805			519
1987	24 072		3 505		3 835		1	79
1986	38 709		20		1 920			647
1985	57 069		5		38 275			39
1984	87 134		0		71 952			78
1983	22 579		0		4 416			
1982	22 072		0		41 878			565
1981	32 803		0		41 500			4 708
1980	59 062		0		48 300			1 282
1979	118 067		0		5 800			522
1978	101 505		0		1 773			122

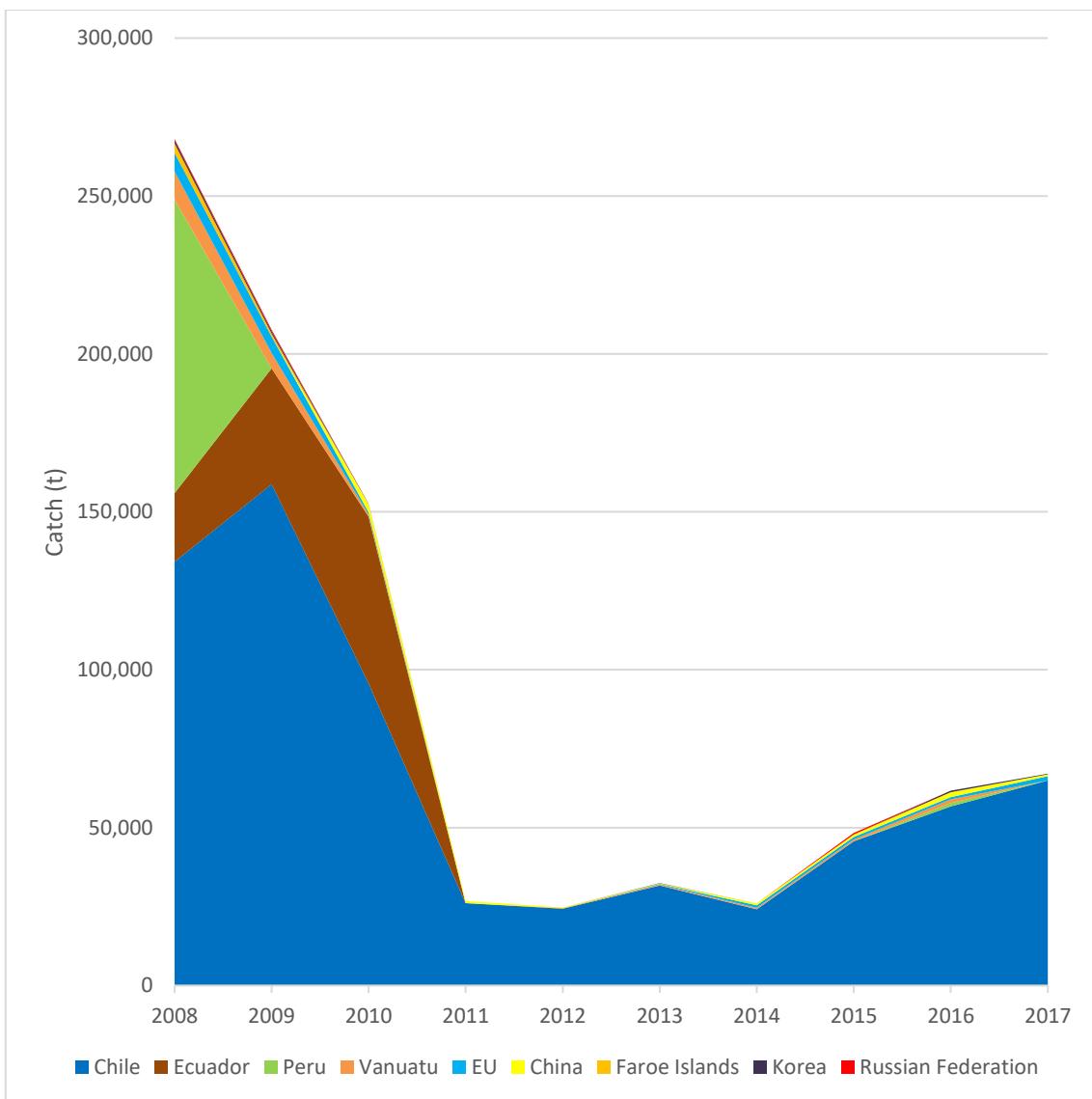


Figure 3.1: Annual reported catches in the South-East Pacific – Chub mackerel

4 Annual reported catches in the South-East Pacific for *Dosidicus gigas* (Jumbo flying squid)Table 4.1: Annual catch data for *Dosidicus gigas* (t)

Participant	Peru		Chile		China	Ecuador
FAO Area	87	87	87	87	87	87
High seas vs In-zone	EEZ (PER)	HS	EEZ (CHL)	HS + EEZ	HS	HS
Species	<i>D. gigas</i>					
2017	295 620	1	155 389		0	296 100
2016	323 337		183 123		17	223 300
2015	513 796	4 151	143 716		0	323 636
2014	556 156	1 190	176 569		0	332 523
2013	451 061		105 905		22	264 000
2012	497 462		144 956		9	261 000
2011	404 730		163 450		45	250 000
2010	369 822		200 428			142 000
2009	411 805		56 337			70 000
2008	533 414		145 171			79 064
2007	427 591		124 389			46 400
2006	434 261			219 800		62 000
2005	291 140			296 953		86 000
2004	270 368			175 134		205 600
2003	153 727			15 191		81 000
2002	146 390			5 589		50 483
2001	71 834			3 476		17 770
2000	53 795			9		
1999	54 652			6		
1998	547			5		
1997	16 061					
1996	8 138			2		
1995	7 769					
1994	26 676			205		
1993	42 838			7 442		
1992	12 695			9 400		
1991	20 657			445		
1990	7 441					
1989						
1988						
1987						
1986						
1985						
1984						
1983						
1982						
1981						
1980						
1979						
1978						



Table 4.1: Continued

Participant	Japan			Korea			Chinese Taipei	Panama
FAO Area	87	87	87	87	87	87	87	87
High seas vs In-zone	HS	HS + EEZ	EEZ	EEZ (PER)	HS	HS + EEZ	HS	HS
Species	<i>D. gigas</i>	Unspecified	<i>D. gigas</i>	<i>D. gigas</i>				
2017					3 460		7 338	289
2016					4 388		12 989	841
2015					4 263		10 072	
2014					7 203		4 795	
2013					6 034		7 759	
2012					8 310		14 177	
2011					7 410		35 418	
2010	498			7 764	6 742		29 206	
2009				7 221	0		12 319	
2008				5 971	804		31 161	
2007				0	0		14 750	
2006	323			2 048	437		18 349	
2005	1 633			2 519	0		15 976	
2004	4 615		22 385	2 026	8 761		39 450	
2003	4 510		22 549	1 681	3 041		23 009	
2002	33 978		26 268	13 130	8 629		12 064	
2001	1 132		71 069	5 797	0		0	
2000	1 704		32 174			20 822	0	
1999	40		6			19 728	0	
1998	0	0	0				0	
1997	297		12 924			3 359	0	
1996	644		557			12 896	0	
1995	37		36 478			35 719	0	
1994	2 698		81 507			69 664	0	
1993	3 579		52 221			62 887	0	
1992	1 874		49 313			43 022	1 698	
1991	50		2 173			24 015		
1990	1 605		0			3 465		
1989	14		0					
1988	43		0					
1987								
1986		94						
1985		15 503						
1984		9						
1983								
1982								
1981								
1980								
1979								
1978		7						



Table 4.1: Continued

Participant	Belize	European Union	Russian Federation	Ukraine
FAO Area	87	87	87	87
High seas vs In-zone	HS	Unknown	Unknown	Unknown
Species	Unspecified	Unspecified	Unspecified	<i>D. gigas</i>
2017				
2016				
2015				
2014				
2013				
2012				
2011				
2010				
2009				
2008				
2007				
2006				
2005				
2004				
2003	479			
2002	353			
2001	453			
2000				
1999				
1998				
1997				
1996				
1995				
1994				
1993				
1992				1
1991		1 075 ¹	23 240 ¹	398
1990			7 860	142
1989			380	
1988				
1987				
1986				
1985			130	
1984			10	
1983				
1982			10	
1981			60	
1980				
1979			45	
1978				

¹ Lithuanian catches are included within both European Union and Russian Federation annual catch data for years prior to the dissolution of the former Soviet Union.

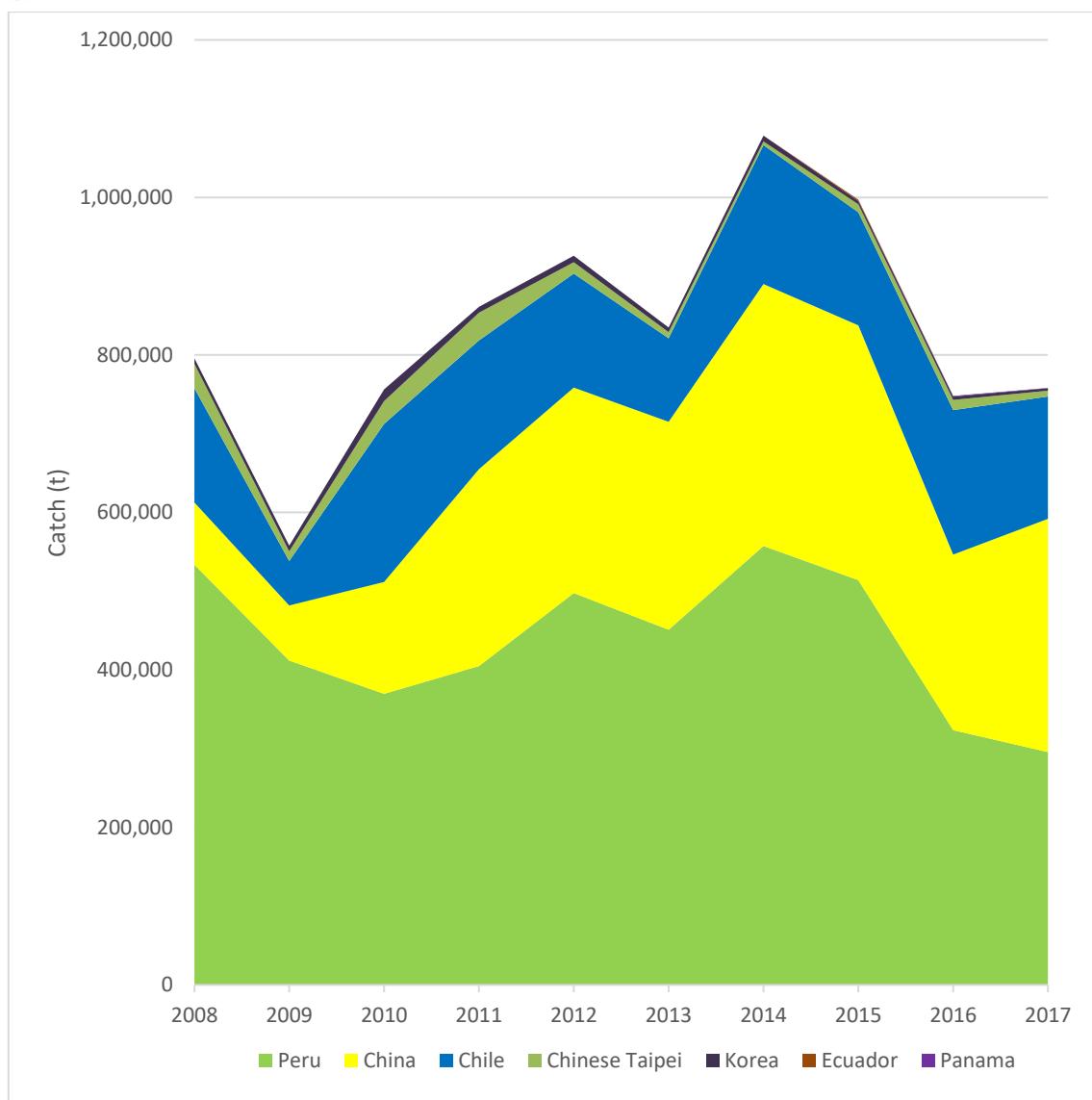


Figure 4.1: Annual reported catches in the South-East Pacific – Jumbo flying squid

5 Annual reported catches for *Hoplostethus atlanticus* in the South Pacific (Orange roughy)Table 5.1: Annual catch data – *Hoplostethus atlanticus* (t)

Participant	Australia	Belize		China	Korea	
FAO Area	Unknown	81	71	81	81	81
High seas vs In-zone	HS	HS	HS	Unknown	HS	HS + EEZ
Species	<i>H. atlanticus</i>					
2017	93					
2016	83					
2015	20					
2014	102					
2013	49					
2012	56					
2011	2					
2010	0	0	0			
2009	0					
2008	0				0	
2007	148	332 ²		336 ²	44	
2006	166	200		570	77	
2005	207	506		710	0	
2004	369	913	1	592	138	
2003	166	9		562	243	
2002	376			597	208	
2001	751			520	94	
2000	948					288
1999	2 514					7
1998	3 098					
1997	1 458					
1996	11 ¹					
1995	11 ¹					
1994	192					
1993	122 ¹					
1992	122 ¹					
1991	122 ¹					
1990	2 ¹					
1989	2 ¹					
1988	2 ¹					
1987	2 ¹					
1986						
1985						
1984						
1983						
1982						
1981						
1980						
1979						
1978						
1977						

¹ Reported catch figures were grouped; these catches have been split equally between years.

² This catch was reported by both Belize and China as an annual total from the same vessel fishing in the same period. Therefore, this catch amount is represented twice in this table.



Table 5.1: Continued

Participant	European Union	New Zealand	Russian Federation		Ukraine
FAO Area	81	81	81	87	81
High seas vs In-zone	HS	HS	Unknown	Unknown	HS
Species	<i>H. atlanticus</i>				
2017		969			
2016		832			
2015		1 203			
2014		1 047			
2013		1 243			
2012		721			
2011		1 079			
2010		1 474			
2009	257	928			
2008		837			
2007		866	0	0	
2006		1 415	0	0	
2005		1 597	0	0	
2004		1 697	0	0	49
2003		1 973	0	0	164
2002		2 578	0	0	
2001		2 499	0	0	
2000		1 574	0	0	53
1999		4 948	0	0	
1998		2 329	0	0	
1997		3 862	0	0	
1996		8 002	0	0	
1995		11 195	0	0	
1994		2 195	0	0	
1993		2 566	0	0	
1992		758	0	0	
1991		141	506	0	
1990		559	36	0	
1989			1 132	0	
1988			991	0	
1987			130	0	
1986			2 475	0	
1985			4 306	0	
1984			4 028	0	
1983			7 229	0	
1982			8 860	0	
1981			14 076	0	
1980			17 300	0	
1979			1 251	0	
1978			0	0	
1977			319	0	

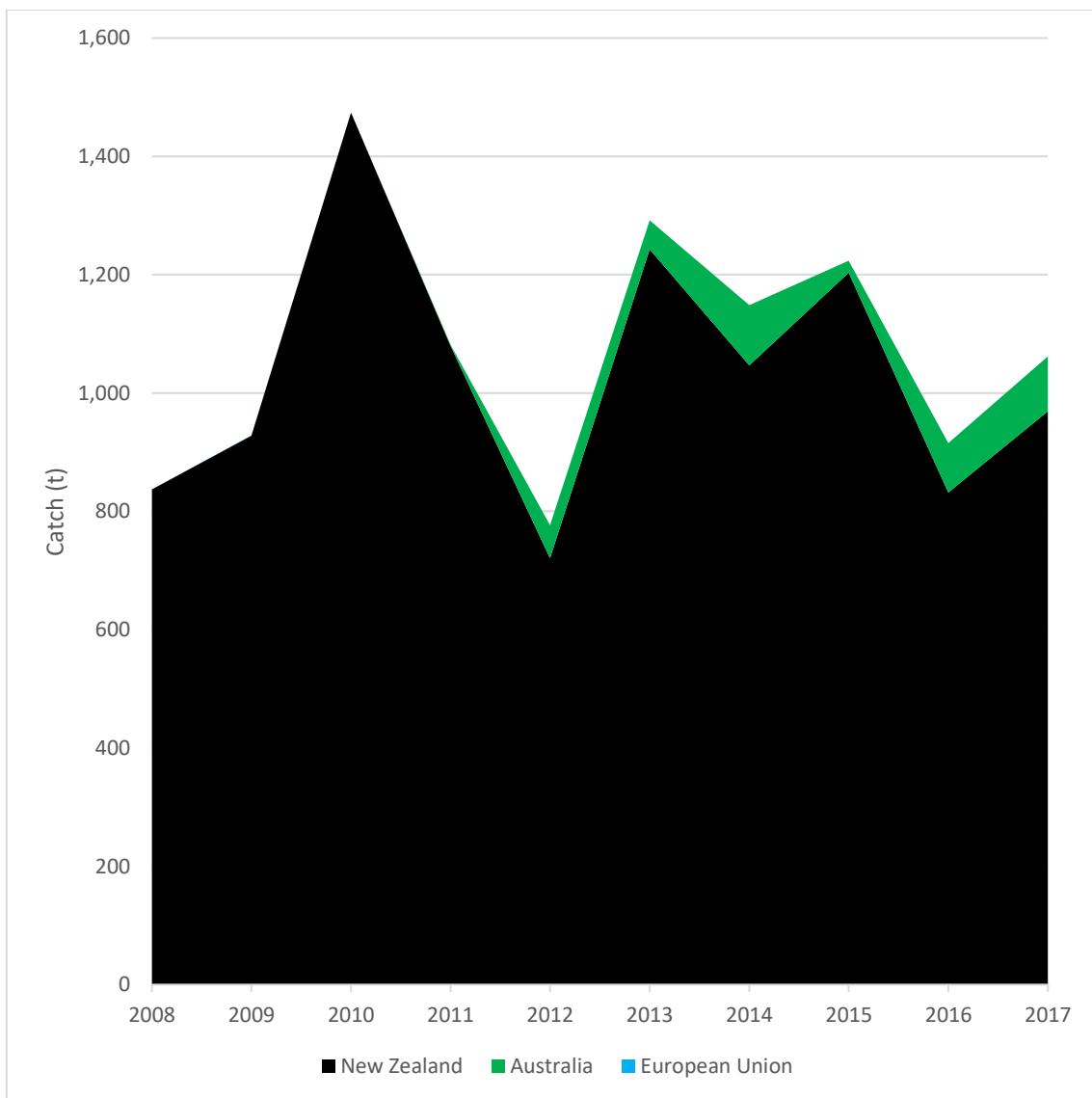


Figure 5.1: Annual reported catches in the SPRFMO Area – Orange roughy



6 Annual reported catches for other species

The following tables summarises annual catch data received by the Secretariat for the remaining major species/species groups. Caches which were known to have been taken entirely within areas of National Jurisdiction have been excluded.

Table 6.1: Annual catch data – other species (t)

Participant	Australia																	
FAO Area	81																	
High seas vs In-zone	HS																	
Species	Amberjacks	Cardinalfish	Alfonsinos	Promfrets	Groupers	Bluenose Warehou	Dogfish sharks	Pelagic armour heads	Emperors	Snake mackerels	Hapuka	Moras	Morwongs	Cusk-eels	Oreo Dories	Scorpion fishes	Sharks, rays	Snappers
2017	39				6	2			36	1	1	1	27	1	5	3	3	24
2016	33		1		5	5			70	1			14			2	1	21
2015	36		4		10	16			14	2	2	8	47	1	1	6	3	23
2014	26		1		1	21		1		2	5		31	1		9	1	
2013	23	2	74		3	42	1	7		1	5		39			8	2	9
2012	54		167			28		22		1	1		40		1	2		
2011	24		47			28		2		1	2		53			1		
2010	17					6							23					
2009	11					4							13					
2008	25					3							24					
2007	1	2	86			16							7		1			
2006	22		209			8							10					
2005			81			4							1		75			
2004			1			2									34			
2003	1		2			30							16		69			
2002	32		3			27							84		73			
2001	5		1			21							43		44			
2000	14	7	4			6							79		209			
1999	13	1	8			22							29		195			
1998	15	2	1			26							31		1 040			
1997		15	1			6							1		953			
1996		26 ¹													11 ¹			
1995		26 ¹													11 ¹			
1994		2													6			
1993															37 ¹			
1992															37 ¹			
1991															37 ¹			
1990																		
1989																		
1988																		

¹ Reported catch figures were grouped; these catches have been split equally between years.



Table 6.1: Continued

Participant	Belize			Chile	European Union													
FAO Area	Various	81	81	87	81							Various	87					
High seas vs In-zone	HS			HS	HS							HS	HS					
Species	Alfonsinos	Pelagic armour heads	Grenadiers	Alfonsinos	Promfrets	Cardinal fishes	Bluenose Warehou	Dogfish sharks	Pelagic Armor heads	Hapuka	Moras	Cusk-eels	Scorpion fishes	Alfonsinos	Promfrets	Drift fishes	Grenadiers	
2017															46	41		
2016															30	154		
2015															140	51		
2014					6			144		9	4	1	2		63	87		
2013																63		
2012																		
2011																29		
2010								292					17					
2009						4	3	2 283	2	91	334					478		
2008								900				17				1 497		
2007	61 ²	28 ²														743		
2006	101																	
2005	102			5														
2004	229		525															
2003	73			11														
2002				2														
2001				1														
2000																		
1999																		
1998				144														
1997																		
1996																		
1995																		
1994																		
1993																		
1992																	10	
1991																		
1990																		
1989																		
1988																		

² This catch was reported by both Belize and China as an annual total from the same vessel fishing in the same period. Therefore, this catch amount is represented twice in this table.

³ Figure not displayed as data is from less than 3 vessels and has not yet been made public.



Table 6.1: Continued

Participant	Japan				Ukraine ⁴				Russian Federation									
FAO Area	87				81, 87				81, 87									
High seas vs In-zone	HS + EEZ				HS + EEZ				HS + EEZ									
Species	Promfrets	Groupers	Morwongs	Sharks, rays	Alfonsinos	Pelagic Armor heads	Cardinal fishes	Oreo Dories	Amberjacks	Alfonsinos	Promfrets	Snake mackerels	Moras	Oreo dories	Grenadiers	Scorpion fishes	Sharks, rays	Pelagic Armor heads
2017																		
2016																		
2015																		
2014																		
2013																		
2012																		
2011																		
2010																		
2009																		
2008																		
2007																		
2006																		
2005																		
2004			409				4	3										
2003			289															
2002			795															
2001			648															
2000			438															
1999			441						209									
1998			1 167						206									
1997			526															
1996			857											5		5		
1995			671										138					
1994			1 415									91	130	18				
1993			996							2	1 963	34			2			
1992			1 032											51	8	1		
1991			857									332	265	93				
1990	18		8	1 435										251				
1989	17		9	844										342				
1988	23		63	1 383										2 685				

⁴ Catches made by Ukrainian vessels operating within the New Zealand EEZ are also included within New Zealand annual catch data.



Table 6.1: Continued



Table 6.2: Annual catch data – mixed species (t)

Participant	Australia	Belize	China	European Union	Japan	Korea	New Zealand	Peru	Russian Federation	Ukraine ⁴
FAO Area	81	81	81	Various	81	81, 87	81	87	81, 87	81, 87
High seas vs In-zone	HS + EEZ	HS	HS + EEZ	HS + EEZ	HS + EEZ	HS + EEZ	HS	HS	HS + EEZ	HS + EEZ
Species	Marine fishes nei									
2017	2						7			
2016	4			1		16	13			
2015	9						14		30	
2014	2						4			
2013	6						11	8		
2012	1						23			
2011	1					100	79			
2010	49			5			64			
2009	79			548		59				
2008	125			20 852			2			
2007	40		73 ²	13		4	31			
2006	95		312			6	51			
2005	18	825	162			222	106			
2004	9	681	304			6	97			
2003	25	479	314		995	23	326			28
2002	41	588	147		615	17	114			
2001	56	453	60		771	8	115			
2000	20				385	20 822	82			58
1999	30				572	19 728	270		3 123	
1998	37				599		405		2 175	
1997	44				181	3 359	609		11 821	
1996	1 ¹				211	12 896	747		17 158	
1995	1 ¹				205	35 719	885		28 069	
1994	3				420	69 664	617		53 292	
1993	1 ¹				291	62 887	468		42 129	
1992	1 ¹				465	43 022	227		82 833	51
1991	1 ¹			15 534	294	24 015	199		351 390	395
1990	2 ¹			14 208	842	3 465	771		398 111	780
1989	2 ¹			9 398	4 113				295 585	680
1988	2 ¹			2 650	2 579				402 101	35
1987	2 ¹				380				545 874	1
1986					651				657 943	59
1985					228				646 295	583
1984				38	638				440 024	826
1983				93	680				253 905	35
1982				349	275				252 621	19 044
1981					282				85 613	2 784
1980					283				109 509	781
1979					5 407				103 130	1 077
1978				5 235	41 574	11 043			44 359	1 533

¹ Reported catch figures were grouped; these catches have been split equally between years.

² This catch was reported by both Belize and China as an annual total from the same vessel fishing in the same period. Therefore, this catch amount is represented twice in these tables.

⁴ Catches made by Ukrainian vessels operating within the New Zealand EEZ are also included within New Zealand annual catch data.

Table 6.2 shows information for “mixed species” indicating that this information was either submitted in this manner or it has been grouped into this category by the Secretariat.



Annex 1: Major species groups

FAO code	FAO common name	Group code	Scientific group	Group name
AMB	Greater amberjack	AMX	<i>Seriola</i> spp	Amberjacks
AMX	Amberjacks nei			
RLH	Samson fish			
YTC	Yellowtail amberjack			
APO	Cardinalfishes, etc. nei	APO	Apogonidae	Cardinalfishes, etc.
CDL	Cardinal fishes nei			
EGR	Robust cardinalfish			
EPI	Black cardinal fish			
QLX	<i>Apogon</i> spp			
ALF	Alfonsinos nei	BRX	Berycidae	Alfonsinos, etc.
BXD	Alfonsino			
BYS	Splendid alfonsino			
CXF	Redfish			
CXZ	Bight redfish			
BLB	Blue butterfish			
BPQ	Pacific pomfret			
BRA	<i>Brama</i> spp	BRZ	Bramidae	Pomfrets, ocean breams
BRU	Southern rays bream			
BRZ	Pomfrets, ocean breams nei			
BUX	Butterfishes, pomfrets nei			
POA	Atlantic pomfret			
TAL	Big-scale pomfret			
BSX	Groupers, seabasses nei			
CFY	Bluespotted hind	BSX	Serranidae	Groupers, seabasses
EEA	Blacktip grouper			
EEP	Comet grouper			
EFQ	Longfin grouper			
EFT	Tomato hind			
EIU	Wavy-lined grouper			
EMO	<i>Plectropomus leopardus</i>			
ENI	Orange-spotted grouper			
EPY	Speckled blue grouper			
EWL	<i>Epinephelus tukula</i>			
GPX	Groupers nei			
HHN	Redbanded perch			
IPL	Butterfly perch			
LDP	Orange perch			
PLM	Spotted coralgrouper			
RNL	Pink maomao			
VRA	White-edged lyretail			
VRL	Yellow-edged lyretail			
BWA	Bluenose warehou	BWA	<i>Hyperoglyphe antarctica</i>	Bluenose warehou
CJM	Chilean jack mackerel	CJM	<i>Trachurus murphyi</i>	Chilean jack mackerel
CEM	Smallfin gulper shark	DGX	Squalidae	Dogfish sharks



FAO code	FAO common name	Group code	Scientific group	Group name
CYO	Portuguese dogfish			
CYP	Longnose velvet dogfish			
CYU	Plunket shark			
CYW	Roughskin dogfish			
CZI	Centroscymnus spp			
DCA	Birdbeak dogfish			
DGS	Picked dogfish			
DGX	Dogfish sharks nei			
DGZ	Dogfishes nei			
DOP	Shortnose spurdog			
ETF	Blackbelly lanternshark			
EUP	Pygmy shark			
GUP	Gulper shark			
GUQ	Leafscale gulper shark			
QUK	Shortspine spurdog			
SCK	Kitefin shark			
SDH	Rough longnose dogfish			
SHL	Lanternsharks nei			
YSM	Largespine velvet dogfish			
BOR	Boarfishes nei	EDW	<i>Pseudopentaceros</i> spp	Pelagic armourheads
EDR	Pelagic armourhead			
EDW	Pelagic armourheads nei			
EMV	Bigspined boarfish			
SWH	Giant boarfish			
ZAL	Longfin boarfish			
GMW	Blue-lined large-eye bream	EMP	Lethrinidae	Emperors(=Scavengers)
LBR	Largeeye breams			
LHB	Spotcheek emperor			
LHI	Trumpet emperor			
LHO	Longface emperor			
WTM	Mozambique large-eye bream			
GEM	Silver gemfish	GEP	Gempylidae	Snake mackerels, escolars
GEP	Snake mackerels, escolars nei			
LEC	Escolar			
OIL	Oilfish			
RXX	<i>Rexea</i> spp			
SNK	Snoek			
GIS	Jumbo flying squid	GIS	<i>Dosidicus gigas</i>	Jumbo flying squid
HAU	Hapuka	HAU	<i>Polyprion</i> spp	Hapuka
WHA	Hapuku wreckfish			
WRF	Wreckfish	MAS	<i>Scomber japonicus</i>	Chub mackerel
MAS	Chub mackerel			
ANT	Blue antimora			
LEV	Lepidion codlings nei			
LMF	Small-headed cod			
MHJ	Slender codling			
MOR	Moras nei			
NEC	Red codling	MOR	Moridae	Moras



FAO code	FAO common name	Group code	Scientific group	Group name
PBV	Northern bastard codling	MOW	<i>Nemadactylus</i> spp	Morwongs
RIB	Common mora			
SAO	Tadpole codling			
CDD	Porae			
HAW	Peruvian morwong			
MOW	Morwongs			
TAK	Tarakihi			
CUS	Pink cusk-eel	OPH	Ophidiidae	Cusk-eels, brotulas
ALL	Warty dory			
BOE	Black oreo			
ONV	Spiky oreo	ORD	Oreosomatidae	Oreo dories
OOT	Ox-eyed oreo			
ORD	Oreo dories nei			
SSO	Smooth oreo dory			
ORY	Orange roughy	ORY	<i>Hoplostethus atlanticus</i>	Orange roughy
CKH	Abyssal grenadier	RTX	Macrouridae	Grenadiers, rattails
CKV	Hawknose grenadier			
GRV	Grenadiers nei			
LDE	Thorntooth grenadier			
MCH	Bigeye grenadier			
RTX	Grenadiers, rattails nei			
WGR	Whitson's grenadier	SCO	Scorpaenidae	Scorpionfishes
BRF	Blackbelly rosefish			
HBX	<i>Hoplichthys</i> spp			
HFR	Red gurnard perch			
ROK	Rosefishes nei			
SCO	Scorpionfishes nei			
SCS	Scorpionfishes, rockfishes nei	SKX	Elasmobranchii	Sharks, rays, skates, etc.
XTY	Trachyscorpia spp			
ALV	Thresher			
AML	Grey reef shark			
API	Deep-water catsharks			
ASK	Angelsharks, sand devils nei			
ASY	Australian spotted catshark			
BRO	Copper shark			
BSH	Blue shark			
BSK	Basking shark			
BYU	Longnose deep-sea skate			
CCE	Bull shark			
CPG	Slender smooth-hound			
CPS	Draughtsboard shark			
CPT	Australian swellshark			
CTU	Gummy shark			
CVX	Ground sharks			
CWZ	<i>Carcharhinus</i> sharks nei			
DPQ	New Zealand smooth skate			
DWS	Deep-water sharks nei			
GAG	Tope shark			



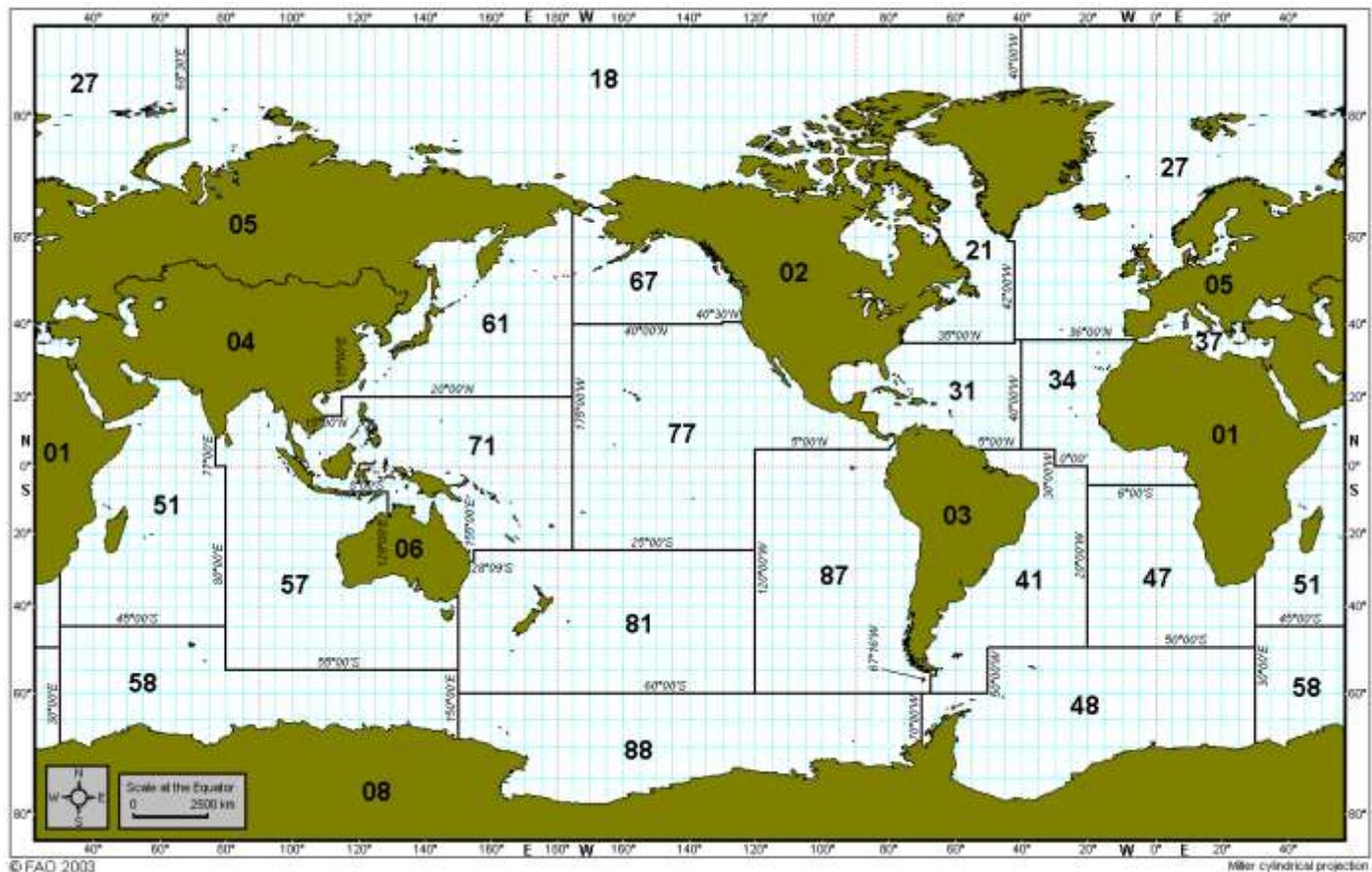
FAO code	FAO common name	Group code	Scientific group	Group name
HAO	New Zealand catshark			
JAT	Rough skate			
JDT	Thorntail stingray			
LMA	Longfin mako			
MTL	Spotted estuary smooth-hound			
NTC	Broadnose sevengill shark			
OXB	Prickly dogfish			
POR	Porbeagle			
PPC	Longnose sawshark			
PPU	Shortnose sawshark			
PTM	False catshark			
RAJ	Rays and skates nei			
RBM	Rhinobatos obtusus			
RJG	Arctic skate			
SHB	Bramble shark			
SKH	Various sharks nei			
SKX	Sharks, rays, skates, etc. nei			
SMA	Shortfin mako			
SPZ	Smooth hammerhead			
STT	Stingrays, butterfly rays nei			
SYX	Catsharks, etc. nei			
THR	Thresher sharks nei			
TIG	Tiger shark			
TRB	Whitetip reef shark			
TTF	New Zealand torpedo			
WSH	Great white shark			
ZRN	New Zealand rough skate			
ARQ	Rusty jobfish			
AVR	Green jobfish			
ETA	Deep-water red snapper			
ETC	Deepwater longtail red snapper			
LDW	Yellow-banded snapper			
LJB	Two-spot red snapper			
LJG	Humpback red snapper			
LJV	Blacktail snapper			
LRY	Ornate jobfish			
LUV	Blubberlip snapper			
LWZ	Oblique-banded snapper			
MAL	Malabar blood snapper			
PFM	Crimson jobfish			
RES	Mangrove red snapper			
SNA	Snappers nei			
SNX	Snappers, jobfishes nei			
TOA	Antarctic toothfish			
TOP	Patagonian toothfish			
HPR	Mediterranean slimehead			
OVE	Slender roughy			
TPT	Sandpaper fish			
		TOT	<i>Dissostichus</i> spp	Antarctic toothfishes
		TRC	Trachichthyidae	Slimeheads



FAO code	FAO common name	Group code	Scientific group	Group name
TRC	Slimeheads nei			
CUP	<i>Cubiceps</i> spp			
UBA	Blue fathead	VTX	Nomeidae	Driftfishes



ANNEX 2: FAO FISHING AREAS OF THE WORLD



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