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Catch Data Submitted to the SPRFMO Secretariat

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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 of 15 January 2020 and for the last 40 years¹. It updates COMM8-INFO1 and includes earlier information which was submitted to the Interim Secretariat (2007 - 2013) under the Interim Management measures.

1.1 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.

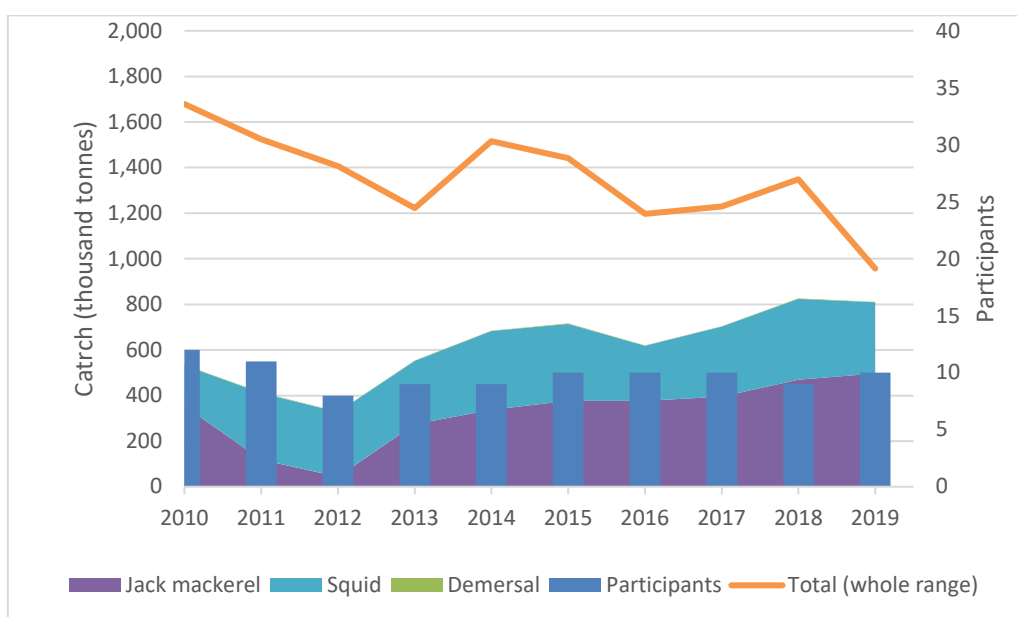


Figure 1.1: Annual catches (t) reported by SPRFMO Members (and CNCPs) assigned to each fishery

Figure 1.1 above shows catches in the SPRFMO Area for the last 10 years according to the Secretariat's records. The Jack mackerel fishery shows a steep decline until 2012 in the area managed by SPRFMO (i.e. including jack mackerel inside Chile's EEZ) after which a recovery occurred and since 2015 catches for this fishery have been stable. The high seas South-east Pacific squid fishery has experienced rapid growth and catches in the SPRFMO Area have been relatively stable for at least 5 years. The catches for the deepwater demersal fishery are virtually imperceptible on this scale. For context, total catches of broad interest to SPRFMO (i.e. including jack mackerel/squid catches from neighbouring EEZs) are also displayed². 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).

¹ The annual catch records held by the SPRFMO Secretariat begin in 1939 (one Member). However, most the records for most Member participants begin in the late 1970's

² The apparent drop in the 2019 Total (whole range) catches is because the Secretariat's records are currently incomplete for Jack mackerel and Jumbo flying squid catches taken within EEZs. Refer to later tables for specific details.



1.2 Fishery characteristics

Figure 1.2 shows the different characteristics of each of the SPRFMO fisheries during 2019. The demersal fishery is the smallest by catch volume (~ 1,000 tonnes) and has the highest species diversity (~130 species caught in 2019; secondary axis). The Jack mackerel fishery was around the same size as the monospecific Squid fishery, but with far fewer vessels operating under the SPRFMO Conservation Management Measures.

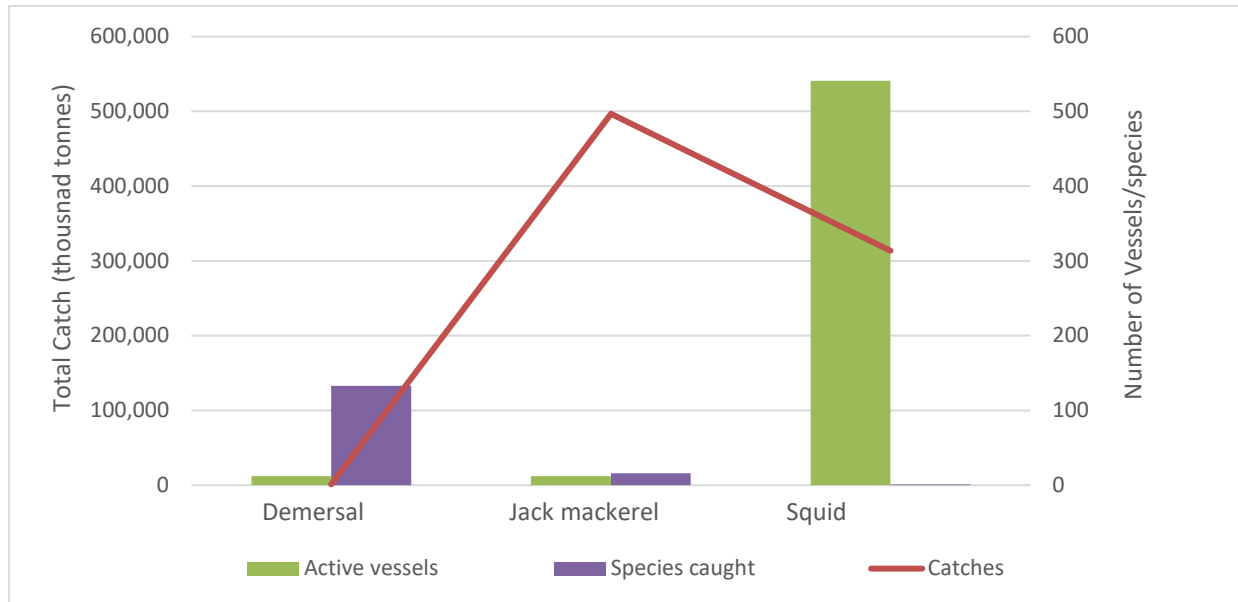


Figure 1.2: Annual catches (t), number of species reported and active fishing vessels for SPRFMO fisheries in 2019.

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 for 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 species³.

Annex 1 lists the major species (groups) and contains details about the specific species that make up each grouping. Note that the SPRFMO Scientific Committee is working on an assessment framework for Deepwater species and the Secretariat's intention is to align the lists of major species with the SC identified Tier 1 and Tier 2 species as the work progresses (refer [SC7-Report](#), paragraph 69)

³ For the purposes of this paper the major species groups were the same as previously defined in COMM7-Inf01 (ie. targeted; one of the top 5 species; present in 5% of the fishing events or representing over 0.5% of the total catch).



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 ⁴		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>
2019			442 038	2 283	22 699			0
2018			425 426	975	24 366			23
2017			341 572	3 173	16 802			54
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	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	

⁴ Chile has submitted annual catch data for *T. murphyi* dating back to 1960.



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>
2019			11 870		0		7 444
2018			9 691		0		3 717
2017			27 887		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				

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.



Table 2.1: Continued

Participant	New Zealand ⁷			Peru ⁸		Russian Federation ^{3, 6, 9, 10}		
	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>
2019					0			9 423
2018				57 140 ¹¹	0			4 685
2017				8 813	0			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

⁷ 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.

⁸ Peru has submitted annual catch data for *T. murphyi* dating back to 1939.

⁹ Russian Federation figures pre-2009 have been proportioned between the High Seas and Peru's EEZ using SWG-09-INF-06.

¹⁰ Ukraine operations prior to 1992 were conducted under the flag of the former Soviet Union.

¹¹ Preliminary figure derived from monthly catch returns.

¹² 2010 Annual catch data was provided for a single vessel (the *Lafayette*) but not included here, 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
	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>
2019				0
2018				0
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	



Table 2.2: Preliminary catches in the South- East Pacific for *Trachurus murphyi*
(Monthly and 15-day catch returns; Jan – 15 Dec 2020)

Participant	FAO Area	High seas vs In-zone	2020
Chile	87	ANJ	551 209
Ecuador	87	ANJ	0
Peru	87	ANJ	139 152
Chile	87	HS	0
China	87	HS	0
European Union	87	HS	0
Faroe Islands	87	HS	0
Korea	87	HS	0
Peru	87	HS	0
Russian Federation	87	HS	4 739
Vanuatu	87	HS	0
Total (t)			695 100

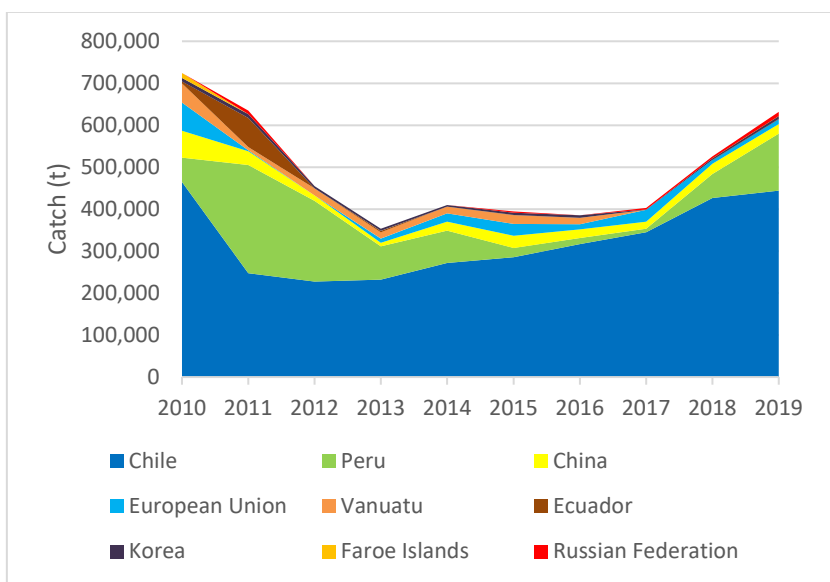


Figure 2.1: Annual reported catches in the South-East Pacific – Jack mackerel (total range)¹⁴

¹⁴ Figure 2.1 includes catches from Areas under National Jurisdiction (which were excluded from Figure 1.1)



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	87
High seas vs In-zone	HS	EEZ (CHL)	HS	HS + EEZ	HS	EEZ (ECU)	HS	HS
Species	<i>S. japonicus</i>	<i>S. japonicus</i>	<i>S. japonicus</i>	<i>S. japonicus</i>	<i>S. japonicus</i>	<i>S. japonicus</i>	<i>S. japonicus</i>	<i>S. japonicus</i>
2019		87 887	250		135			
2018		59 774	61		311			
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								

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. japonicus</i>	<i>Scomber</i> spp	<i>S. japonicus</i>	<i>S. japonicus</i>	<i>S. japonicus</i>	<i>S. japonicus</i>	<i>S. japonicus</i>
2019				129			82	0
2018				112			246	0
2017				462			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				

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		
	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>
2019		0		44				
2018		0		52				
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

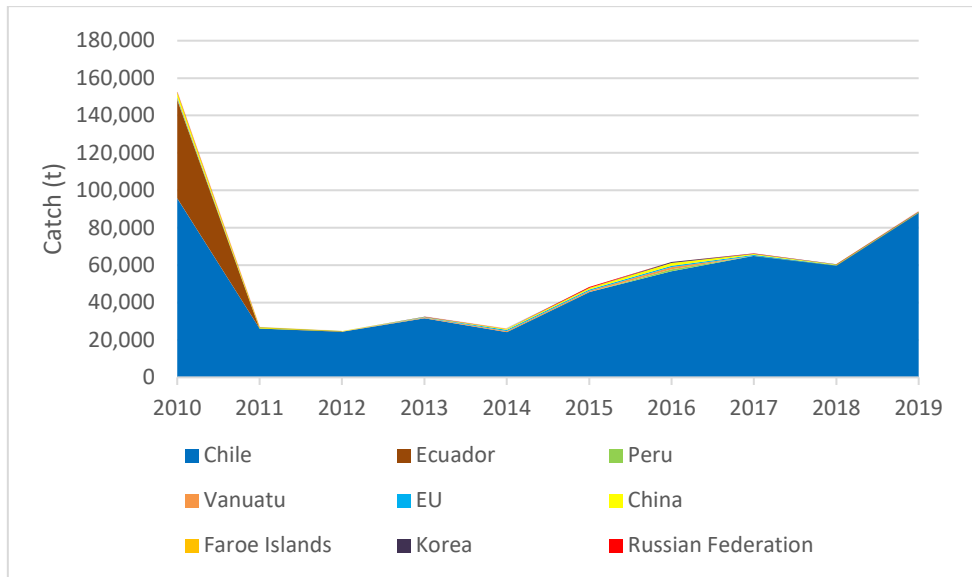


Figure 3.1: Annual reported catches in the South-East Pacific – Chub mackerel



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
	87	87	87	87	87	87	87
High seas vs In-zone	EEZ (PER)	HS	EEZ (CHL)	HS + EEZ	HS	HS	EEZ (ECU)
Species	<i>D. gigas</i>	<i>D. gigas</i>	<i>D. gigas</i>	<i>D. gigas</i>	<i>D. gigas</i>	<i>D. gigas</i>	<i>D. gigas</i>
2019		0	58 042			305 670	
2018	317 000	288	145 927		0	346 200	
2017	290 933	5 068	155 389		0	296 100	
2016	322 338	999	183 123		17	223 300	
2015	513 492	304	143 716		0	323 636	1 500
2014	554 882	1 274	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							



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>	<i>D. gigas</i>	<i>D. gigas</i>	<i>D. gigas</i>	<i>D. gigas</i>	Unspecified	<i>D. gigas</i>	<i>D. gigas</i>
2019					5 578		2 085	
2018					3 651		3 848	
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								



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>
2019				
2018				
2017				
2016		130		
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				

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.

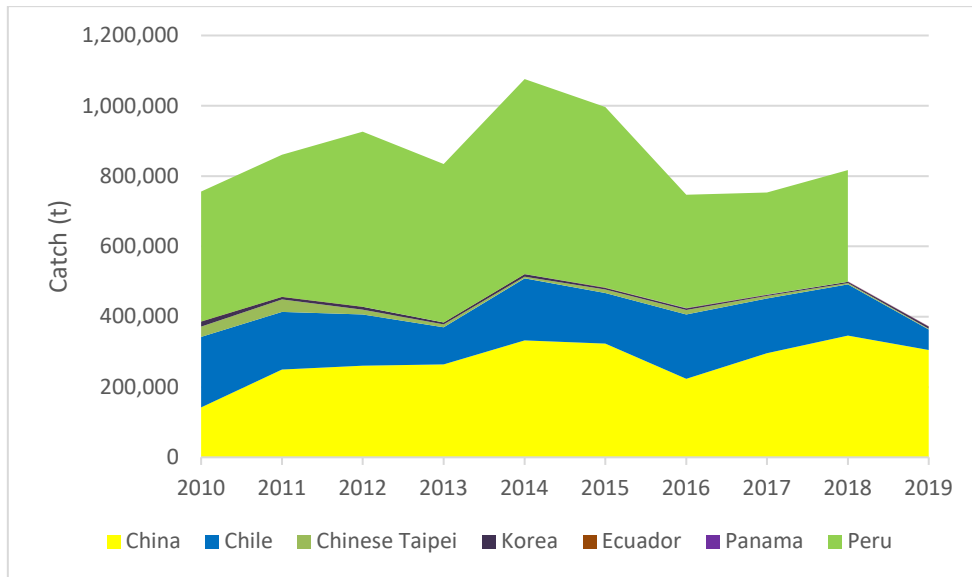


Figure 4.1: Annual reported catches in the South-East Pacific – Jumbo flying squid¹⁵

¹⁵ The apparent drop in 2019 is because the Secretariat does not hold a catch figure for Peru's Jumbo flying squid catches taken within its EEZ.



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>	<i>H. atlanticus</i>	<i>H. atlanticus</i>	<i>H. atlanticus</i>	<i>H. atlanticus</i>	<i>H. atlanticus</i>
2019	44					
2018	0					
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						

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>	<i>H. atlanticus</i>	<i>H. atlanticus</i>	<i>H. atlanticus</i>	<i>H. atlanticus</i>
2019		460			
2018		1 164			
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	

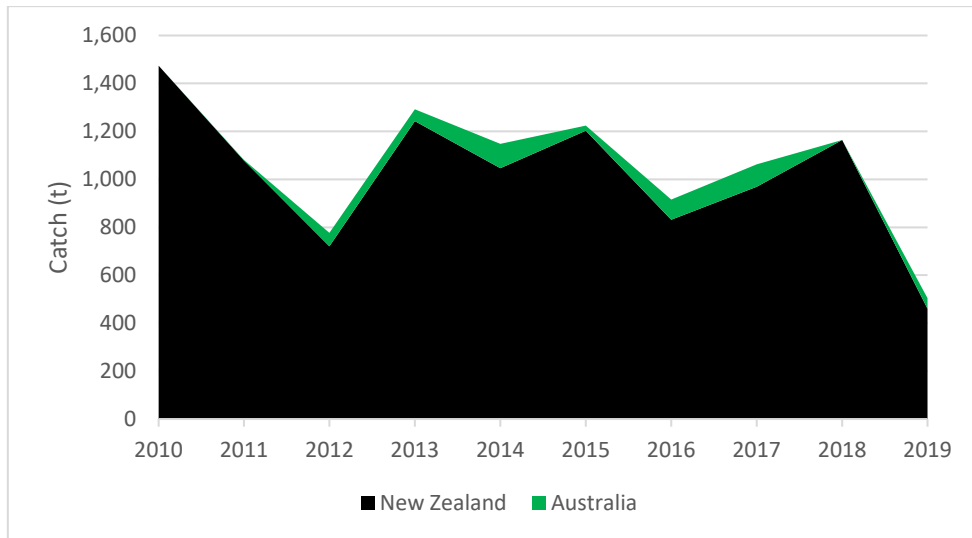


Figure 5.1: Annual reported catches in the SPRFMO Area – Orange roughy



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. Catches 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																	
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
2019	5		14		7	5			51	1		3	9			2	1	23
2018	27				3	2			18				23			2		22
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	Cook Islands		European Union											
FAO Area	Various	81	81	87	Various		81						Various			87		
High seas vs In-zone	HS			HS	HS		HS						HS			HS		
Species	Alfonsinos	Pelagic armour heads	Grenadiers	Alfonsinos	Rock Lobsters	Chaceon spp	Cardinal fishes	Bluenose Warehou	Dogfish sharks	Hapuka	Moras	Cusk-eels	Scorpion fishes	Promfrets	Pelagic Armor heads	Alfonsinos	Drift fishes	Grenadiers
2019					150	8								138	3		46	
2018														260			196	
2017														88			82	
2016														30			154	
2015														140			51	
2014								144	9	4	1	2	69				87	
2013														63				
2012																		
2011														29				
2010								292				17						
2009							4	3	2 283		91	334		478	2			
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 Reported by both Belize and China as an annual total from the same vessel fishing in the same period and represented twice in this table.

³ Figure not displayed as data is from less than 3 vessels and not 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
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				
1987				1 754										6 497				
1986		1	2	666										6 769				
1985				521										12 019				
1984		4		1 331						467				8 560				
1983				1 178	32					633			113	13 072				
1982				771	198	31				620			649	8 920				
1981				846	12					676				25 167				31
1980				713						2 337		38	569	18 221			382	

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



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

Participant	Australia	Belize	China	Cook Islands	European Union	Japan	Korea	New Zealand	Peru	Russian Federation	Ukraine ⁴
FAO Area	81	81	81	Various	Various	81	81, 87	81	87	81, 87	81, 87
High seas vs In-zone	HS + EEZ	HS	HS + EEZ	HS	HS + EEZ	HS + EEZ	HS + EEZ	HS	HS	HS + EEZ	HS + EEZ
Species	Marine fishes nei										
2019	19			1	8		6	7			
2018	17							19			
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

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	BRZ	Bramidae	Pomfrets, ocean breams
BPQ	Pacific pomfret			
BRA	<i>Brama</i> spp			
BRU	Southern rays bream			
BRZ	Pomfrets, ocean breams nei			
BUX	Butterfishes, pomfrets nei			
POA	Atlantic pomfret			
TAL	Big-scale pomfret			
BSX	Groupers, seabasses nei	BSX	Serranidae	Groupers, seabasses
CFY	Bluespotted hind			
EEA	Blacktip grouper			
EEP	Comet grouper			
EFQ	Longfin grouper			
EFT	Tomato hind			
EIU	Wavy-lined grouper			
EMO	Plectropomus leopardus			
ENI	Orange-spotted grouper			
EPY	Speckled blue grouper			
EWL	Epinephelus tukula			
GPX	Groupers nei			
HHN	Redbanded perch			
IPL	Butterfly perch			
LDP	Orange perch			
PLM	Spotted coral grouper			
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
CYO	Portuguese dogfish			



FAO code	FAO common name	Group code	Scientific group	Group name
CYP	Longnose velvet dogfish			
CYU	Plunket shark			
CYW	Roughskin dogfish			
CZI	Centroscyrnus 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			
EDR	Pelagic armourhead			
EDW	Pelagic armourheads nei			
EMV	Bigspined boarfish	EDW	<i>Pseudopentaceros</i> spp	Pelagic armourheads
SWH	Giant boarfish			
ZAL	Longfin boarfish			
GMW	Blue-lined large-eye bream			
LBR	Largeeye breams			
LHB	Spotcheek emperor			
LHI	Trumpet emperor	EMP	Lethrinidae	Emperors(=Scavengers)
LHO	Longface emperor			
WTM	Mozambique large-eye bream			
GEM	Silver gemfish			
GEP	Snake mackerels, escolars nei			
LEC	Escolar	GEP	Gempylidae	Snake mackerels, escolars
OIL	Oilfish			
RXX	<i>Rexea</i> spp			
SNK	Snoek			
GIS	Jumbo flying squid	GIS	<i>Dosidicus gigas</i>	Jumbo flying squid
HAU	Hapuka			
WHA	Hapuku wreckfish	HAU	<i>Polyprion</i> spp	Hapuka
WRF	Wreckfish			
MAS	Chub mackerel	MAS	<i>Scomber japonicus</i>	Chub mackerel
ANT	Blue antimora			
LEV	Lepidion codlings nei			
LMF	Small-headed cod			
MHJ	Slender codling	MOR	Moridae	Moras
MOR	Moras nei			
NEC	Red codling			



FAO code	FAO common name	Group code	Scientific group	Group name
PBR	Southern bastard codling			
PBV	Northern bastard codling			
PQO	Physiculus spp			
RIB	Common mora			
SAO	Tadpole codling			
CDD	Porae	MOW	<i>Nemadactylus</i> spp	Morwongs
HAW	Peruvian morwong			
MOW	Morwongs			
TAK	Tarakihi			
CUS	Pink cusk-eel	OPH	Ophidiidae	Cusk-eels, brotulas
CEX	Cusk-eels nei			
ALL	Warty dory	ORD	Oreosomatidae	Oreo dories
BOE	Black oreo			
ONV	Spiky oreo			
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			
BRF	Blackbelly rosefish	SCO	Scorpaenidae	Scorpionfishes
HBX	<i>Hoplichthys</i> spp			
HFR	Red gurnard perch			
ROK	Rosefishes nei			
SCO	Scorpionfishes nei			
SCS	Scorpionfishes, rockfishes nei			
XTY	Trachyscorpia spp	SKX	Elasmobranchii	Sharks, rays, skates, etc.
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			



FAO code	FAO common name	Group code	Scientific group	Group name
CWZ	<i>Carcharhinus sharks nei</i>			
DPQ	New Zealand smooth skate			
DWS	Deep-water sharks nei			
GAG	Tope shark			
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			
		SNX	Lutjanidae	Snappers, jobfishes



FAO code	FAO common name	Group code	Scientific group	Group name
TOA	Antarctic toothfish	TOT	<i>Dissostichus</i> spp	Antarctic toothfishes
TOP	Patagonian toothfish			
HPR	Mediterranean slimehead	TRC	Trachichthyidae	Slimeheads
OVE	Slender roughy			
TPT	Sandpaper fish			
TRC	Slimeheads nei			
CUP	<i>Cubiceps</i> spp	VTX	Nomeidae	Driftfishes
UBA	Blue fathead			



Annex 2. FAO Fishing Areas of the world

