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**CATCH AND EFFORT INFORMATION ON NORTH PACIFIC SWORDFISH**  
**(NC18-IP-05\_rev1)**

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**Catch and Effort Information on North Pacific swordfish**

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WCPFC-NC18-2022/IP-05 [\(Rev.01\)](#)

**WCPFC Secretariat**

This paper provides catch and effort data by CCM and fishery for the North Pacific swordfish fishery to support discussions on reference year(s) that may be useful to consider for the development of a CMM for North Pacific Swordfish. The North Pacific swordfish catch data in **Table 1** were extracted from Table 18-3 in the ISC22 Plenary Report. As effort data are not public domain data within the ISC, historical effort data are not available at this time and would require an ISC member's consent for compilation. As the unit of effort data varies by CCM, fishing method or year, NC18 may consider and determine an appropriate approach to compile effort data for management purposes.

[On 3<sup>rd</sup> October 2022, China provided their catch history of swordfish in the North Pacific Ocean from 2008 to 2021. \*\*Table 2\*\* provides China's catch of North Pacific swordfish by longline vessels with specified fishing areas.](#)

**Table 1.** North Pacific swordfish (*Xiphias gladius*) catch<sup>1</sup> by vessels for years 2000-2021 in the North Pacific Ocean, north of the equator. (Source: Table 18-3, ISC22 Plenary Report)

Year	Japan						Korea		Mexico			Chinese Taipei						
	Setnet	Drift gillnet	LL	Others	Not specified	Japan total	LL	Korea total	others	Sports	Mexico total	Setnet	Gillnet (not specified)	Harpoon	LL	Others	PS	TPE Total
2000	5	808	7,301	497	49	<b>8,660</b>	202	<b>202</b>	602	-	<b>602</b>	5	6	74	3,716	-	-	<b>3,801</b>
2001	15	732	7,840	230	30	<b>8,847</b>	438	<b>438</b>	516	-	<b>516</b>	8	18	64	4,853	-	-	<b>4,943</b>
2002	11	1,164	7,195	201	29	<b>8,600</b>	438	<b>438</b>	215	-	<b>215</b>	16	8	1	5,400	1	-	<b>5,426</b>
2003	4	1,198	6,439	149	28	<b>7,818</b>	380	<b>380</b>	237	-	<b>237</b>	8	3	-	4,771	-	-	<b>4,782</b>
2004	4	1,062	6,904	229	30	<b>8,229</b>	410	<b>410</b>	268	-	<b>268</b>	7	6	1	4,248	2	-	<b>4,264</b>
2005	3	956	6,653	187	337	<b>8,136</b>	403	<b>403</b>	234	-	<b>234</b>	5	3	16	3,964	2	-	<b>3,990</b>
2006	5	796	7,690	244	343	<b>9,078</b>	465	<b>465</b>	328	-	<b>328</b>	7	2	49	4,382	3	-	<b>4,443</b>
2007	2	829	8,125	122	368	<b>9,446</b>	453	<b>453</b>	172	-	<b>172</b>	2	2	20	4,099	2	-	<b>4,125</b>
2008	3	648	6,189	173	349	<b>7,362</b>	794	<b>794</b>	242	-	<b>242</b>	3	6	39	3,745	+	-	<b>3,793</b>
2009	3	682	6,007	239	249	<b>7,180</b>	993	<b>993</b>	394	-	<b>394</b>	83	7	31	3,550	-	-	<b>3,671</b>
2010	8	494	5,400	110	230	<b>6,242</b>	662	<b>662</b>	222	-	<b>222</b>	6	4	42	2,844	-	-	<b>2,896</b>
2011	2	193	4,022	10	233	<b>4,460</b>	962	<b>962</b>	-	-	-	8	17	52	3,577	1	+	<b>3,655</b>
2012	8	371	4,034	59	288	<b>4,760</b>	856	<b>856</b>	-	-	-	3	15	30	3,746	+	-	<b>3,794</b>
2013	13	290	4,248	163	291	<b>5,005</b>	1,071	<b>1,071</b>	-	-	-	2	8	-	2,846	1	-	<b>2,857</b>
2014	7	269	4,381	0	291	<b>4,948</b>	829	<b>829</b>	-	-	-	4	4	-	2,817	+	+	<b>2,825</b>
2015	3	277	5,012	204	281	<b>5,777</b>	776	<b>776</b>	-	-	-	4	4	-	3,199	-	-	<b>3,207</b>
2016	2	303	5,605	169	256	<b>6,335</b>	582	<b>582</b>	-	-	-	2	3	+	2,054	+	-	<b>2,059</b>
2017	3	291	4,837	274	289	<b>5,694</b>	583	<b>583</b>				+	3	0	2,194	+	+	<b>2,197</b>
2018	5	230	5,015	480	267	<b>5,997</b>	664	<b>664</b>				1	+	0	2,124	+	-	<b>2,125</b>
2019	6	242	3,897	339	210	<b>4,694</b>	468	<b>468</b>				2	+	0	2,113	+	-	<b>2,115</b>
2020	7	290	5,273	179	305	<b>6,054</b>	392	<b>392</b>				3	+	0	1,868	+	-	<b>1,871</b>
2021	7	290	2,315	179	305	<b>3,096</b>	335	<b>335</b>				3	+	0	1,067	+	-	<b>1,070</b>
<b>Average</b>	<b>6</b>	<b>564</b>	<b>5654</b>	<b>202</b>	<b>230</b>	<b>6,655</b>	<b>598</b>	<b>598</b>	<b>312</b>		<b>312</b>	<b>9</b>	<b>7</b>	<b>25</b>	<b>3326</b>	<b>2</b>		<b>3,368</b>

<sup>1</sup> “0”: Fishing effort was reported but no catch; “+”: Below 499kg catch; “-”: Unreported catch or catch information not available. “\*”: Data from the most recent years are provisional.

(Table 1 continued)

Year	USA										GRAND TOTAL
	Draft gillnet	Harpoon	Handline	LL	Pole&line	Troll	Hook&line	Other	PS	USA Total	
2000	649	90		4,834				33		5,606	18,871
2001	375	52		1,969				19		2,415	17,159
2002	302	90		1,524				3		1,919	16,598
2003	216	107	10	1,958				11		2,302	15,519
2004	182	69	7	1,185				44		1,487	14,658
2005	220	77	5	1,622				5		1,929	14,692
2006	443	71	4	1,211				5		1,734	16,048
2007	490	59	5	1,735		1				2,290	16,486
2008	405	48	6	2,014				19		2,492	14,683
2009	253	50	5	1,817		0		0		2,125	14,363
2010	62	37	3	1,676				18		1,796	11,818
2011	119	24	5	1,623				90		1,861	10,938
2012	118	5	6	1,395		1		1		1,526	10,936
2013	95	6	6	1,270		1		7		1,385	10,318
2014	127	6	7	1,665		1	0	4		1,811	10,413
2015	101	5	5	1,515		1	0	12		1,639	11,399
2016	183	26	4	1,092			1	42		1,348	10,324
2017	180	28	6	1,618		0	1	44		1,877	10,350
2018	148	10	3	1,053		1	0	67		1,281	10,067
2019	52	11	3	734		0	1	186		987	8,265
2020	35	6	2	543			1	125		711	9,028
2021	13	7	1	690		0	2	54		768	5,269
<b>Average</b>	<b>217</b>	<b>40</b>	<b>5</b>	<b>1579</b>		<b>1</b>	<b>1</b>	<b>38</b>		<b>1,880</b>	<b>12,813</b>

Table 2. China's catch history for North Pacific swordfish (*Xiphias gladius*) by longline vessels for years 2008-2021.

WCPO-SWO-N			EPO-SWO-N			WHOLE PACIFIC SWO-N					
Year	0-20°N	North of 20°N	Sub-total	Year	0-20°N	North of 20°N	Sub-total	Year	0-20°N	North of 20°N	Sub-total
2008	188.7	2.5	191.2	2008	1.81	0	1.81	2008	190.51	2.5	193.01
2009	124.36	0	124.36	2009	54.9	0	54.9	2009	179.26	0	179.26
2010	304.9	0	304.9	2010	290.96	0	290.96	2010	595.86	0	595.86
2011	277.78	0.12	277.9	2011	111.91	0	111.91	2011	389.69	0.12	389.81
2012	282.95	3.9	286.85	2012	43.93	0.5	44.43	2012	326.88	4.4	331.28
2013	201.73	6.99	208.72	2013	53.82	0	53.82	2013	255.55	6.99	262.54
2014	317.93	5.02	322.95	2014	111.52	9.99	121.51	2014	429.45	15.01	444.46
2015	909.65	18.96	928.61	2015	175.92	0	175.92	2015	1,085.57	18.96	1,104.53
2016	678.44	10.27	688.71	2016	201.71	0	201.71	2016	880.15	10.27	890.42
2017	409.75	6.63	416.38	2017	483.12	0.038	483.158	2017	892.87	6.668	899.538
2018	1,079.16	6.22	1,085.38	2018	841.89	0.237	842.127	2018	1,921.05	6.457	1,927.507
2019	593.25	10.57	603.82	2019	565	0	565	2019	1,158.25	10.57	1168.82
2020	428.45	4.48	432.93	2020	392.45	0	392.45	2020	820.9	4.48	825.38
2021	159.14	5.92	165.06	2021	3.31	0.26	3.57	2021	162.45	6.18	168.63