

## OCEANIC FISHERIES PROGRAMME

### PUBLIC DOMAIN CATCH AND EFFORT DATA – PURSE SEINE BY YEAR, QUARTER, FLAG, 1°x1°

This dataset represents the most complete PURSE SEINE data available to the WCPFC that can be disseminated into the public domain in accordance with the current "Rules and Procedures for the Protection, Access to, and Dissemination of Data Compiled by the Commission" ("RAP" – see <http://www.wcpfc.int/doc/data-02/rules-and-procedures-protection-access-and-dissemination-data-compiled-commission> ).

In reference to the RAP (Paragraph 9), cells where effort is less than or equal to the maximum value estimated to represent the activities of two vessels have been removed from the public domain data (the cells are retained with their time/area information, but all catch and effort information in these have been set to zero).

Reference to the Coordinating Working Party No can be found on <http://www.fao.org/cwp-on-fishery-statistics/handbook/general-concepts/major-fishing-areas-general/en/>

PS: Vietnam Purse seine fishery is very different from the main WCPFC purse seine tropical fishery in that the vessels and gear are much smaller, and the catch by set is more than an order of magnitude less than the average in the WCPFC PS tropical fishery. For this reason, Vietnamese fishery data has been excluded at this stage and public domain data for this fishery may be included as a distinct gear in the future.

# **DATASET STRUCTURE**

Field Name	Picture	Description
YY	N( 4 )	Year
QTR	N( 2 )	Quarter
FLAG_ID	C( 2 )	Flag - Fishing Nation (ISO 2-letter country code)
LAT_short	C( 3 )	Latitude. It represents the latitude of the south-west corner of 1° square for these data.
LON_short	C( 4 )	Longitude. It represents the longitude of the south-west corner of 1° square for these data.
CWP_GRID	N( 11 )	Coordinating Working Party No
DAYS	N( 6 )	Days fishing and searching (effort).
SETS_UNA	N( 6 )	Number of Sets (Unassociated schools).
SETS_LOG	N( 6 )	Number of Sets (Natural Log/debris).
SETS_DFAD	N( 6 )	Number of Sets (Drifting FAD).
SETS_AFAD	N( 6 )	Number of Sets (Anchored FAD).
SETS_OTH	N( 6 )	Number of Sets (Other set types combined).
SKJ_C_UNA	N( 8, 3)	Skipjack catch in metric tonnes (Unassociated schools).
YFT_C_UNA	N( 8, 3)	Yellowfin catch (metric tonnes) (Unassociated schools).
BET_C_UNA	N( 8, 3)	Bigeye catch (metric tonnes) (Unassociated schools).
OTH_C_UNA	N( 8, 3)	Other species catch (metric tonnes) (Unassociated schools).
SKJ_C_LOG	N( 8, 3)	Skipjack catch in metric tonnes (Natural-Log schools).
YFT_C_LOG	N( 8, 3)	Yellowfin catch (metric tonnes) (Natural-Log schools).
BET_C_LOG	N( 8, 3)	Bigeye catch (metric tonnes) (Natural-Log schools).
OTH_C_LOG	N( 8, 3)	Other species catch (metric tonnes) (Natural-Log schools).
SKJ_C_DFAD	N( 8, 3)	Skipjack catch in metric tonnes (Drifting FAD schools).
YFT_C_DFAD	N( 8, 3)	Yellowfin catch (metric tonnes) (Drifting FAD schools).
BET_C_DFAD	N( 8, 3)	Bigeye catch (metric tonnes) (Drifting FAD schools).
OTH_C_DFAD	N( 8, 3)	Other species catch (metric tonnes) (Drifting FAD schools).
SKJ_C_AFAD	N( 8, 3)	Skipjack catch in metric tonnes (Anchored FAD schools).
YFT_C_AFAD	N( 8, 3)	Yellowfin catch (metric tonnes) (Anchored FAD schools).
BET_C_AFAD	N( 8, 3)	Bigeye catch (metric tonnes) (Anchored FAD schools).
Field Name	Picture	Description
OTH_C_AFAD	N( 8, 3)	Other species catch (metric tonnes) (Anchored FAD schools).
SKJ_C_OTH	N( 8, 3)	Skipjack catch in metric tonnes (Schools from other set types).
YFT_C_OTH	N( 8, 3)	Yellowfin catch (metric tonnes) (Schools from other set types).
BET_C_OTH	N( 8, 3)	Bigeye catch (metric tonnes) (Schools from other set types).
OTH_C_OTH	N( 8, 3)	Other species catch (metric tonnes) (Schools from other set types).

Statistics showing the amount of data removed and resultant coverage of the public domain data available to satisfy the RAP's three-vessel rule

Year	Effort (days) for strata with 3 or more vessels	Total effort (days)	Coverage of effort (%) after filtering for the three-vessel rule	Number of strata with 3 or more vessels	Number of all full coverage strata	Coverage of strata (%) after filtering for the three-vessel rule
1967	0.0	8.0	0.0	0	7	0.00
1968	0.0	51.0	0.0	0	23	0.00
1969	0.0	17.0	0.0	0	11	0.00
1970	0.0	3,087.0	0.0	0	252	0.00
1971	0.0	5,503.0	0.0	0	347	0.00
1972	0.0	6,029.5	0.0	0	326	0.00
1973	0.0	6,964.9	0.0	0	412	0.00
1974	0.0	6,133.0	0.0	0	422	0.00
1975	20.0	3,513.0	0.6	1	479	0.21
1976	0.0	3,509.0	0.0	0	521	0.00
1977	0.0	3,861.0	0.0	0	513	0.00
1978	9.0	3,266.0	0.3	1	571	0.18
1979	365.7	5,589.0	6.5	24	615	3.90
1980	710.5	5,957.7	11.9	58	886	6.55
1981	1,260.4	10,946.8	11.5	103	1,657	6.22
1982	3,161.0	15,468.7	20.4	186	2,336	7.96
1983	4,639.9	23,851.7	19.5	170	3,055	5.56
1984	7,148.1	30,011.8	23.8	255	3,322	7.68
1985	7,128.7	25,129.9	28.4	341	3,241	10.52
1986	7,012.0	25,194.8	27.8	344	3,389	10.15
1987	8,556.8	29,201.8	29.3	445	3,569	12.47
1988	13,454.1	28,110.0	47.9	579	3,540	16.36
1989	18,475.4	31,597.5	58.5	822	3,734	22.01
1990	19,323.0	35,443.3	54.5	919	4,225	21.75
1991	23,897.7	43,484.0	55.0	891	4,520	19.71
1992	27,189.5	46,511.9	58.5	1,056	4,776	22.11
1993	28,397.0	48,490.1	58.6	1,241	5,287	23.47
1994	25,249.2	44,376.7	56.9	1,221	5,307	23.01
1995	25,662.6	44,029.1	58.3	1,060	5,082	20.86
1996	26,582.1	46,371.5	57.3	1,192	5,782	20.62
1997	25,064.8	47,244.3	53.1	1,417	7,013	20.21
1998	24,182.0	46,045.0	52.5	1,282	6,414	19.99
1999	22,183.9	47,436.4	46.8	1,427	7,802	18.29
2000	21,148.9	47,254.9	44.8	1,277	7,836	16.30
2001	23,311.2	46,653.6	50.0	1,437	7,760	18.52
2002	25,214.7	50,970.3	49.5	1,620	8,990	18.02
2003	26,436.1	54,709.4	48.3	1,501	9,016	16.65
2004	27,293.6	59,274.6	46.0	1,755	10,028	17.50
2005	28,419.3	59,853.8	47.5	1,717	9,862	17.41
2006	27,458.4	56,760.5	48.4	1,627	8,722	18.65
2007	30,127.1	61,249.1	49.2	1,840	9,313	19.76
2008	31,544.7	66,537.8	47.4	1,971	10,494	18.78
2009	33,332.7	65,567.4	50.8	2,070	10,403	19.90
2010	38,886.3	64,681.4	60.1	2,246	10,006	22.45
2011	41,474.7	72,747.8	57.0	2,329	11,278	20.65
2012	38,370.3	70,504.2	54.4	2,461	11,360	21.66
2013	37,091.1	78,631.7	47.2	2,429	11,816	20.56
2014	35,985.8	73,501.9	49.0	2,466	11,380	21.67
2015	28,585.2	56,151.9	50.9	2,109	10,051	20.98
2016	28,036.1	61,278.6	45.8	2,104	10,694	19.67
2017	31,235.0	69,695.3	44.8	2,471	11,400	21.68
2018	29,992.8	59,536.1	50.4	2,494	11,348	21.98
2019	29,296.5	60,274.3	48.6	2,202	10,081	21.84
2020	31,637.8	62,436.1	50.7	2,354	10,684	22.03
2021	30,192.8	62,864.2	48.0	2,382	10,651	22.36
2022	28,051.7	59,812.0	46.9	2,116	9,994	21.17
2023	26,797.6	59,371.8	45.1	2,083	10,472	19.89
Total	1,049,594	2,202,752	47.6	64,096	333,075	19.24