

## OCEANIC FISHERIES PROGRAMME

### PUBLIC DOMAIN CATCH AND EFFORT DATA – PURSE SEINE BY FLAG AND YEAR

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.

# **DATABASE FILE NAMES**

- S\_PUBLIC\_BY\_FLAG\_YR.xls
- S\_PUBLIC\_BY\_FLAG\_YR.csv

## **DATASET STRUCTURE**

Field Name	Picture	Description
YY	N( 4 )	Year
FLAG	C( 2 )	Flag codes ( <b>when this field is blank</b> , the record is a cell representing activities of less than three vessels and so the EFFORT (hooks) and CATCH by SPECIES fields have not been provided.
LAT_SHORT	C( 3 )	Latitude. It represents the latitude of the south-west corner of 5° square for these data.
LON_SHORT	C( 4 )	Longitude. It represents the longitude of the south-west corner of 5° 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).

Field Name	Picture	Description
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).
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	4	0.00
1968	0.0	51.0	0.0	0	6	0.00
1969	0.0	17.0	0.0	0	5	0.00
1970	0.0	3,087.0	0.0	0	24	0.00
1971	0.0	5,503.0	0.0	0	23	0.00
1972	0.0	6,029.5	0.0	0	19	0.00
1973	0.0	6,964.9	0.0	0	31	0.00
1974	0.0	6,133.0	0.0	0	25	0.00
1975	23.0	3,513.0	0.7	1	33	3.03
1976	0.0	3,509.0	0.0	0	39	0.00
1977	0.0	3,861.0	0.0	0	33	0.00
1978	34.0	3,266.0	1.0	1	33	3.03
1979	1,381.3	5,589.0	24.7	5	33	15.15
1980	1,128.1	5,957.7	18.9	5	40	12.50
1981	2,522.6	10,946.8	23.0	13	124	10.48
1982	4,341.3	15,468.7	28.1	15	146	10.27
1983	7,380.0	23,851.7	30.9	21	147	14.29
1984	14,918.6	30,011.8	49.7	43	182	23.63
1985	16,160.4	25,129.9	64.3	54	167	32.34
1986	13,083.4	25,194.8	51.9	57	192	29.69
1987	18,964.4	29,201.8	64.9	68	182	37.36
1988	20,756.1	28,110.0	73.8	87	199	43.72
1989	24,017.0	31,597.5	76.0	86	208	41.35
1990	27,232.8	35,443.3	76.8	97	246	39.43
1991	33,323.5	43,484.0	76.6	105	269	39.03
1992	36,653.2	46,511.9	78.8	110	274	40.15
1993	38,005.9	48,490.1	78.4	117	298	39.26
1994	33,569.0	44,376.7	75.6	135	297	45.45
1995	32,396.3	44,029.1	73.6	107	289	37.02
1996	32,772.0	46,371.5	70.7	117	361	32.41
1997	34,187.6	47,244.3	72.4	185	443	41.76
1998	31,503.8	46,045.0	68.4	163	452	36.06
1999	33,026.0	47,436.4	69.6	173	435	39.77
2000	32,149.9	47,254.9	68.0	185	458	40.39
2001	32,255.6	46,653.6	69.1	178	478	37.24
2002	34,943.5	50,970.3	68.6	221	603	36.65
2003	38,108.2	54,709.4	69.7	231	536	43.10
2004	41,397.9	59,274.6	69.8	228	574	39.72
2005	43,311.9	59,853.8	72.4	258	560	46.07
2006	40,360.6	56,760.5	71.1	225	527	42.69
2007	43,303.9	61,249.1	70.7	224	536	41.79
2008	46,415.8	66,537.8	69.8	250	578	43.25
2009	47,679.6	65,567.4	72.7	274	643	42.61
2010	49,381.1	64,681.4	76.3	277	650	42.62
2011	55,160.7	72,747.8	75.8	277	621	44.61
2012	51,741.6	70,504.2	73.4	309	587	52.64
2013	52,692.2	78,631.7	67.0	315	612	51.47
2014	51,389.1	73,501.9	69.9	305	590	51.69
2015	40,523.6	56,151.9	72.2	323	599	53.92
2016	41,928.6	61,278.6	68.4	334	616	54.22
2017	44,972.6	69,695.3	64.5	308	594	51.85
2018	41,969.7	59,536.1	70.5	307	651	47.16
2019	40,219.3	60,274.3	66.7	325	647	50.23
2020	43,043.6	62,436.1	68.9	318	645	49.30
2021	42,728.8	62,864.2	68.0	333	622	53.54
2022	41,184.8	59,812.0	68.9	303	608	49.84
2023	41,134.3	59,371.8	69.3	364	685	53.14
Total	1,495,377	2,202,752	67.9	8,437	19,479	43.31