

## OCEANIC FISHERIES PROGRAMME

### PUBLIC DOMAIN CATCH AND EFFORT DATA – PURSE SEINE

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/>

Note that catch and effort by area and month has been estimated for the domestic fisheries of Indonesia, Philippines.

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
MM	N( 2 )	Month
LAT5	C( 3 )	Latitude. It represents the latitude of the south-west corner of 5° square for these data.
LON5	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).
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 > 40 days/month	Total effort (days)	Coverage of effort (%) after filtering for the three-vessel rule	Number of strata with more than three vessels	Number of all 5x5/month strata	Coverage of strata (%) after filtering for the three-vessel rule
1967	0.0	8.0	0.0	0	4	0.0
1968	0.0	51.0	0.0	0	13	0.0
1969	0.0	17.0	0.0	0	7	0.0
1970	3,000.0	3,087.0	97.2	36	71	50.7
1971	5,273.2	5,503.0	95.8	43	83	51.8
1972	5,790.9	6,029.5	96.0	47	79	59.5
1973	6,656.1	6,964.9	95.6	52	105	49.5
1974	5,629.9	6,133.0	91.8	45	109	41.3
1975	2,082.3	3,513.0	59.3	22	131	16.8
1976	1,959.5	3,509.0	55.8	17	130	13.1
1977	2,791.6	3,861.0	72.3	40	131	30.5
1978	1,436.7	3,266.0	44.0	17	148	11.5
1979	4,473.9	5,589.0	80.0	58	135	43.0
1980	3,628.1	5,957.7	60.9	50	177	28.2
1981	7,778.6	10,946.8	71.1	98	410	23.9
1982	11,663.6	15,468.7	75.4	137	500	27.4
1983	17,765.2	23,851.7	74.5	158	605	26.1
1984	22,191.1	30,011.8	73.9	162	593	27.3
1985	20,328.8	25,129.9	80.9	171	578	29.6
1986	19,687.3	25,194.8	78.1	175	545	32.1
1987	22,960.7	29,201.8	78.6	227	570	39.8
1988	24,375.0	28,110.0	86.7	210	590	35.6
1989	28,425.2	31,597.5	90.0	236	596	39.6
1990	31,304.6	35,443.3	88.3	311	702	44.3
1991	39,761.3	43,484.0	91.4	307	639	48.0
1992	42,913.4	46,511.9	92.3	342	696	49.1
1993	43,412.2	48,490.1	89.5	368	791	46.5
1994	40,171.8	44,376.7	90.5	369	739	49.9
1995	40,873.9	44,029.1	92.8	293	718	40.8
1996	43,037.2	46,371.5	92.8	367	748	49.1
1997	43,123.8	47,244.3	91.3	430	846	50.8
1998	43,669.9	46,045.0	94.8	430	850	50.6
1999	43,638.1	47,436.4	92.0	475	901	52.7
2000	43,165.5	47,254.9	91.3	466	908	51.3
2001	42,817.8	46,653.6	91.8	418	874	47.8
2002	47,554.8	50,970.3	93.3	446	945	47.2
2003	50,412.4	54,709.4	92.1	395	858	46.0
2004	51,606.4	59,274.6	87.1	470	985	47.7
2005	53,137.0	59,853.8	88.8	433	909	47.6
2006	52,206.0	56,760.5	92.0	394	823	47.9
2007	56,651.7	61,249.1	92.5	423	897	47.2
2008	62,323.2	66,537.8	93.7	468	989	47.3
2009	61,596.7	65,567.4	93.9	470	924	50.9
2010	60,614.7	64,681.4	93.7	481	923	52.1
2011	69,334.8	72,747.8	95.3	562	1,006	55.9
2012	66,847.5	70,504.2	94.8	580	985	58.9
2013	74,268.5	78,631.7	94.5	563	993	56.7
2014	69,169.5	73,501.9	94.1	591	950	62.2
2015	53,156.8	56,151.9	94.7	583	939	62.1
2016	56,805.8	61,278.6	92.7	548	933	58.7
2017	66,024.6	69,695.3	94.7	613	954	64.3

2018	56,813.2	59,536.1	95.4	590	963	61.3
2019	56,821.7	60,274.3	94.3	533	895	59.6
2020	57,748.4	62,436.1	92.5	572	954	60.0
2021	58,943.1	62,864.2	93.8	579	957	60.5
2022	55,742.9	59,812.0	93.2	539	975	55.3
2023	54,201.5	59,371.8	91.3	553	965	57.3
Total	2,007,768	2,202,752	91.1	17,963	36,444	49.3