OCEANIC FISHERIES PROGRAMME

PUBLIC DOMAIN CATCH AND EFFORT DATA – PURSE SEINE BY YEAR, MONTH, 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
MM	N(2)	Month
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 > 40 days/month	Total effort (days)	Coverage of effort (%) after filtering for the three-vessel rule	Number of strata with effort > 40 days/month	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	27	0.00
1969	0.0	17.0	0.0	0	11	0.00
1970	0.0	3,087.0	0.0	0	642	0.00
1971	0.0	5,503.0	0.0	0	772	0.00
1972	0.0	6,029.5	0.0	0	780	0.00
1973	0.0	6,964.9	0.0	0	890	0.00
1974	0.0	6,133.0	0.0	0	893	0.00
1975	6.0	3,513.0	0.2	1	947	0.11
1976	0.0	3,509.0	0.0	0	1,004	0.00
1977	0.0	3,861.0	0.0	0	1,035	0.00
1978	9.0	3,266.0	0.3	1	1,061	0.09
1979	271.6	5,589.0	4.9	23	1,182	1.95
1980	436.2	5,957.7	7.3	50	1,994	2.51
1981	1,133.1	10,946.8	10.4	111	2,900	3.83
1982	3,205.6	15,468.7	20.7	230	3,798	6.06
1983	4,907.7	23,851.7	20.6	224	4,821	4.65
1984	9,539.6	30,011.8	31.8	356	5,006	7.11
1985	7,685.1	25,129.9	30.6	414	4,675	8.86
1986	8,934.4	25,194.8	35.5	409	4,494	9.10
1987	8,273.6	29,201.8	28.3	490	5,067	9.67
1988	14,569.5	28,110.0	51.8	625	4,583	13.64
1989	18,632.8	31,597.5	59.0	895	5,016	17.84
1990	18,781.7	35,443.3	53.0	1,055	5,937	17.77
1991	25,711.0	43,484.0	59.1	1,005	5,675	17.71
1992	27,426.7	46,511.9	59.0	1,215	6,082	19.98
1993	29,361.7	48,490.1	60.6	1,462	6,611	22.11
1994	26,618.5	44,376.7	60.0	1,432	6,574	21.78
1995	27,862.7	44,029.1	63.3	1,117	5,725	19.51
1996	27,433.6	46,371.5	59.2	1,271	6,676	19.04
1997	25,956.5	47,244.3	54.9	1,446	7,674	18.84
1998	25,441.8	46,045.0	55.3	1,348	7,057	19.10
1999	23,634.4	47,436.4	49.8	1,582	8,352	18.94
2000	23,466.2	47,254.9	49.7	1,311	8,160	16.07
2001	26,186.6	46,653.6	56.1	1,388	7,529	18.44
2002	29,658.0	50,970.3	58.2	1,617	7,988	20.24
2003	32,528.0	54,709.4	59.5	1,525	7,476	20.40
2004	33,161.3	59,274.6	55.9	1,893	9,011	21.01
2005	35,179.5	59,853.8	58.8	1,831	8,210	22.30
2006	33,747.7	56,760.5	59.5	1,731	7,454	23.22
2007	36,180.4	61,249.1	59.1	1,841	7,984	23.06
2008	38,557.6	66,537.8	57.9	1,922	8,791	21.86
2009	41,454.6	65,567.4	63.2	2,121	8,374	25.33
2010	44,804.8	64,681.4	69.3	1,859	8,061	23.06
2011	48,913.1	72,747.8	67.2	2,243	9,432	23.78
2012	45,528.0	70,504.2	64.6	2,324	9,426	24.66
2013	46,619.9	78,631.7	59.3	2,250	9,159	24.57
2014	44,048.3	73,501.9	59.9	2,392	9,217	25.95
2015	34,442.0	56,151.9	61.3	2,173	8,664	25.08
2016	35,551.3	61,278.6	58.0	2,073	8,534	24.29
2017	38,556.7	69,695.3	55.3	2,582	9,466	27.28
2018	36,629.8	59,536.1	61.5	2,649	9,266	28.59
2019	35,685.0	60,274.3	59.2	2,039	7,972	25.58
2020	37,741.9	62,436.1	60.4	2,342	8,950	26.17
2021	36,257.6	62,864.2	57.7	2,365	8,751	27.03
2022	34,990.3	59,812.0	58.5	2,126	8,421	25.25
2023	33,884.7	59,371.8	57.1	2,211	8,684	25.46
Total	1,219,606	2,202,752	55.4	65,570	322,948	20.30