

FISHERIES AND OCEANS CANADA

SOUTH COAST ASSESSMENT BULLETIN

CREEL SURVEY DATA REVIEW PACKAGE

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**Area 23 (Barkley) July 2021**



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*Prepared By:*  
South Coast Salmon Stock Assessment Section

Thursday 19<sup>th</sup> January, 2023



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**Table 1: Numbers of Interviews conducted contributing to the area by day and access site.**

Date	Day Type	China Creek			Clutesi Marina		Clutesi Ramp			Eagle Marine (Fuel Dock)		Island West	McKay Bay Gas Dock			Mills Landing			Poett Nook			Tofino Resort and Marina	Ucluelet Gov Dock			
		AM	MD	PM	AM	MD	AM	MD	PM	MD	PM	MD	AM	MD	PM	AM	MD	PM	AM	MD	PM	MD	AM	MD	PM	
28 Jun 2021	Midweek																									
29 Jun 2021	Midweek									4				8										5		
30 Jun 2021	Midweek	1																								
01 Jul 2021	Weekend																									12
02 Jul 2021	Midweek						1					5														
03 Jul 2021	Weekend										2															6
04 Jul 2021	Weekend						2							3												
05 Jul 2021	Midweek							1																		3
06 Jul 2021	Midweek			3																						3
07 Jul 2021	Midweek																									
08 Jul 2021	Midweek																									5
09 Jul 2021	Midweek																									
10 Jul 2021	Weekend																									4
11 Jul 2021	Weekend					1		2																		21
12 Jul 2021	Midweek																									4
13 Jul 2021	Midweek																									
14 Jul 2021	Midweek																									
15 Jul 2021	Midweek																									16
16 Jul 2021	Midweek																									5
17 Jul 2021	Weekend																									
18 Jul 2021	Weekend					1		1																		6
19 Jul 2021	Midweek																									
20 Jul 2021	Midweek																									
21 Jul 2021	Midweek																									
22 Jul 2021	Midweek	1																								
23 Jul 2021	Midweek																									
24 Jul 2021	Weekend																									6
25 Jul 2021	Weekend																									7
26 Jul 2021	Midweek																									
27 Jul 2021	Midweek																									2
28 Jul 2021	Midweek																									
29 Jul 2021	Midweek																									
30 Jul 2021	Midweek																									
31 Jul 2021	Weekend	3																								4
01 Aug 2021	Weekend	3																								12
02 Aug 2021	Weekend																									9
03 Aug 2021	Midweek																									6

Table 2: Daily tally of interviews, catch and effort.

Date	Day	Average Fishing Conditions	Interviews & Log Trips	Chinook	Coho	Sockeye	Halibut	Observed Fishing	Flight Time	Expanded Fishing
28-Jun-2021	Monday	calm/rippled	8	11	7					
29-Jun-2021	Tuesday	choppy	17	36	5					
30-Jun-2021	Wednesday	choppy	6	15	1			40	0806	53
01-Jul-2021	Thursday (Canada Day)	calm/rippled	15	26	20					
02-Jul-2021	Friday	calm/rippled	12	25	1	4				
03-Jul-2021	Saturday	frequent whitecaps	13	24						
04-Jul-2021	Sunday	choppy	5	9				69	0941	95
05-Jul-2021	Monday	choppy	13	21	12	2				
06-Jul-2021	Tuesday	choppy	13	19	4		1			
07-Jul-2021	Wednesday	large swells	14	31	17					
08-Jul-2021	Thursday	choppy	18	46	27					
09-Jul-2021	Friday	choppy	23	32	28					
10-Jul-2021	Saturday	choppy	12	18	22					
11-Jul-2021	Sunday	calm/rippled	29	77	27			75	0708	103
12-Jul-2021	Monday	calm/rippled	39	83	62					
13-Jul-2021	Tuesday	choppy	16	35	30	4				
14-Jul-2021	Wednesday	calm/rippled	25	61	29					
15-Jul-2021	Thursday	choppy	18	32	21					
16-Jul-2021	Friday	choppy	7	4	12					
17-Jul-2021	Saturday	calm/rippled	9	6	10			71	0731	91
18-Jul-2021	Sunday	calm/rippled	20	15	6					
19-Jul-2021	Monday	calm/rippled	1	2				11	0736	14
20-Jul-2021	Tuesday	calm/rippled	6	6				31	0717	40
21-Jul-2021	Wednesday	calm/rippled	4	1	1					
22-Jul-2021	Thursday	calm/rippled	14	7	7					
23-Jul-2021	Friday	calm/rippled	12	8	2					
24-Jul-2021	Saturday	choppy	11	19	13			42	1036	68
25-Jul-2021	Sunday	choppy	17	13	12					
26-Jul-2021	Monday	choppy	3							
27-Jul-2021	Tuesday	choppy	9	3	3		9			
28-Jul-2021	Wednesday	choppy	13	16	1			88	1029	133
29-Jul-2021	Thursday	choppy	17	14	9					
30-Jul-2021	Friday	calm/rippled	10	6	3					
31-Jul-2021	Saturday	choppy	40	46	17			147	0958	223
01-Aug-2021	Sunday	frequent whitecaps	55	42	23			8	1337	35
02-Aug-2021	Monday (B.C. Day)	choppy	16	15	5					
03-Aug-2021	Tuesday	choppy	12	14	1			84	1146	194
	Totals	choppy	287	452	269	10	10	43*		62*
	Totals	choppy	171	253	127			81*		116*

\* Average number of boats Observed and Expanded

**Table 3: Simple area based cpue (catch per boat trip) expansion.**

Day Type	Average Expanded Boats	Number of Days	Total Estimated Effort	CPUE				Retained			
				Chinook	Coho	Sockeye	Halibut	Chinook	Coho	Sockeye	Halibut
Midweek	62	21	1302	1.575	0.937	0.035	0.035	2051	1220	46	46
Weekend	116	10	1160	1.48	0.743			1717	862		

**Table 4: Recent years estimates of retained catch and effort.**

Year	Month	Total Effort	Chinook Kept	Coho Kept	Sockeye Kept	Halibut Kept
2016	July	2362	930	30	781	82
2017	July	2532	725	188	898	42
2018	July	3799	2802	1183	50	
2019	July	4558	4334	5283	6	51
2020	July	1963	2231	184	254	57
2021	July	2963	4253	2842	37	11
5-Yr Avg	July	3043	2204	1374	398	58

**Table 5: Sport Head Recovery Review.**

Species	Creel Marked Catch	Creel Mark Rate	Creel Submission Rate	iRec Marked Catch	iRec Mark Rate	iRec Submission Rate	Sport Head Recoveries
Coho	1102	45%	5%	859	51%	6%	54
Chinook	1711	49%	17%	1134	37%	25%	284

**Table 6: Guided Proprtions Review.**

Data Source	Interviews / Angler Days	Guided Proportion
Creel Interivews	456	37%
iRec Anglers	5849	26%

Figure 1: Proportion of each day's fishing by hour.

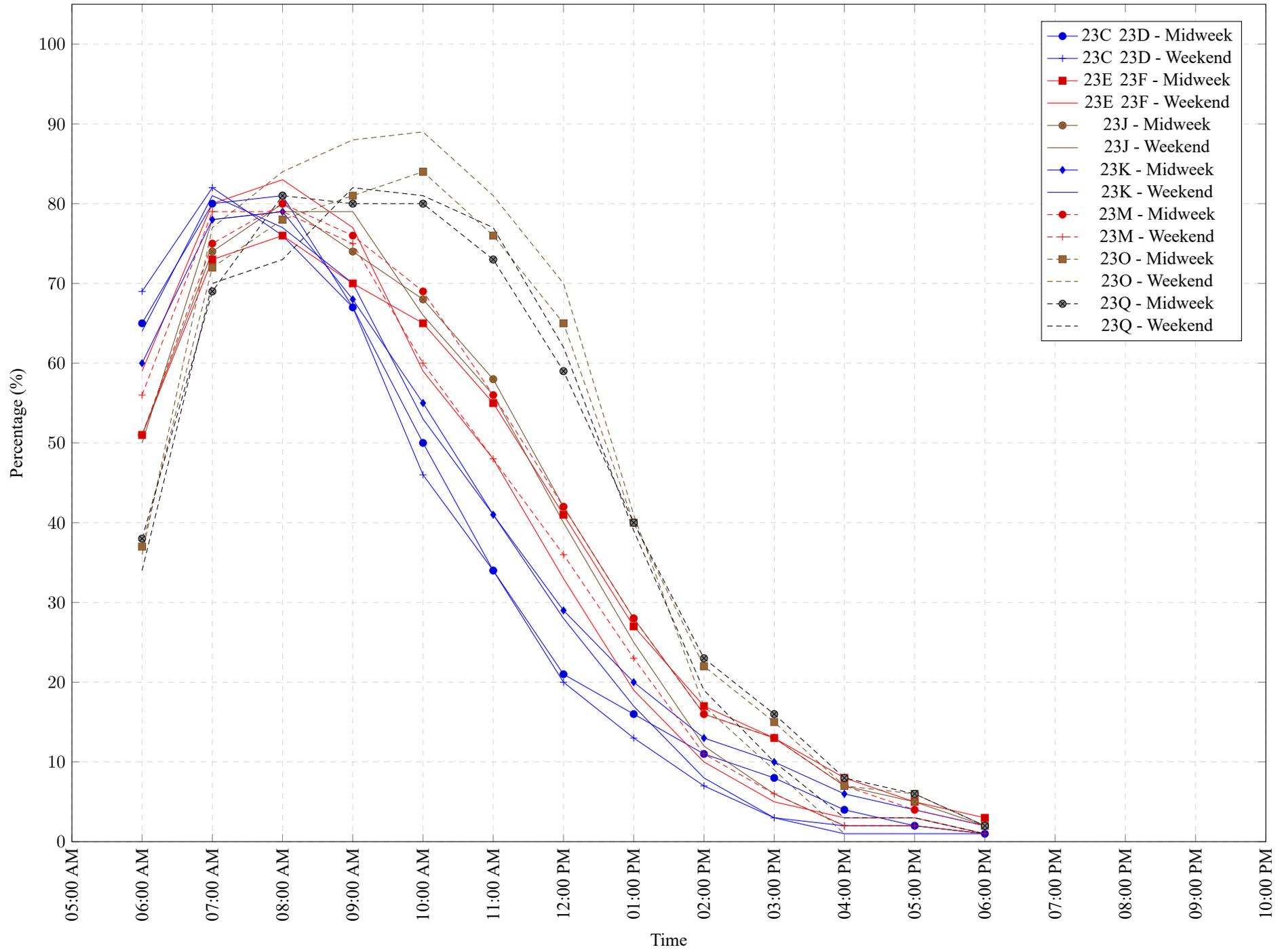


Table 7: Proportion of each day's fishing by hour.

Areas	Day Type	6:00	7:00	8:00	9:00	10:00	11:00	12:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00
		AM	AM	AM	AM	AM	AM	PM										
23C 23D	Midweek	65%	80%	81%	67%	50%	34%	21%	16%	11%	8%	4%	2%	1%	0%	0%	0%	0%
23C 23D	Weekend	69%	82%	76%	67%	46%	34%	20%	13%	7%	3%	2%	2%	1%	0%	0%	0%	0%
23E 23F	Midweek	51%	73%	76%	70%	65%	55%	41%	27%	17%	13%	8%	5%	3%	0%	0%	0%	0%
23E 23F	Weekend	59%	80%	83%	77%	59%	48%	33%	19%	10%	5%	3%	3%	1%	0%	0%	0%	0%
23J	Midweek	51%	74%	80%	74%	68%	58%	42%	28%	16%	13%	7%	5%	2%	0%	0%	0%	0%
23J	Weekend	50%	78%	79%	79%	66%	56%	40%	25%	12%	6%	2%	2%	1%	0%	0%	0%	0%
23K	Midweek	60%	78%	79%	68%	55%	41%	29%	20%	13%	10%	6%	4%	2%	0%	0%	0%	0%
23K	Weekend	64%	81%	77%	70%	53%	41%	28%	17%	8%	3%	1%	1%	1%	0%	0%	0%	0%
23M	Midweek	51%	75%	80%	76%	69%	56%	42%	28%	16%	13%	7%	4%	2%	0%	0%	0%	0%
23M	Weekend	56%	79%	79%	75%	60%	48%	36%	23%	11%	6%	2%	2%	1%	0%	0%	0%	0%
23O	Midweek	37%	72%	78%	81%	84%	76%	65%	40%	22%	15%	7%	6%	2%	0%	0%	0%	0%
23O	Weekend	36%	77%	84%	88%	89%	81%	70%	41%	17%	9%	1%	0%	0%	0%	0%	0%	0%
23Q	Midweek	38%	69%	81%	80%	80%	73%	59%	40%	23%	16%	8%	6%	2%	0%	0%	0%	0%
23Q	Weekend	34%	70%	73%	82%	81%	77%	62%	39%	19%	10%	3%	3%	1%	0%	0%	0%	0%

Table 8: Daily Fishing Conditions.

Date	Day Type	China Creek	Clutesi Marina	Clutesi Ramp	Eagle Marine (Fuel Dock)	Island West	McKay Bay Gas Dock	Mills Landing	Poett Nook	Tofino Resort and Marina	Ucluelet Gov Dock
28 Jun 2021	Midweek										calm/rippled
29 Jun 2021	Midweek				choppy		choppy				
30 Jun 2021	Midweek	frequent whitecaps						choppy			
01 Jul 2021	Weekend										calm/rippled
02 Jul 2021	Midweek			calm/rippled		choppy					
03 Jul 2021	Weekend				choppy						frequent whitecaps
04 Jul 2021	Weekend			calm/rippled			choppy				
05 Jul 2021	Midweek	frequent whitecaps		calm/rippled					choppy		choppy
06 Jul 2021	Midweek						choppy				calm/rippled
07 Jul 2021	Midweek			large swells	frequent whitecaps						
08 Jul 2021	Midweek				calm/rippled			frequent whitecaps			calm/rippled
09 Jul 2021	Midweek					calm/rippled	choppy				calm/rippled
10 Jul 2021	Weekend							choppy			
11 Jul 2021	Weekend		choppy	calm/rippled							calm/rippled
12 Jul 2021	Midweek				calm/rippled		choppy				calm/rippled
13 Jul 2021	Midweek			large swells	calm/rippled						
14 Jul 2021	Midweek					calm/rippled					calm/rippled
15 Jul 2021	Midweek				choppy			choppy			calm/rippled
16 Jul 2021	Midweek						choppy				
17 Jul 2021	Weekend		frequent whitecaps		calm/rippled			calm/rippled			
18 Jul 2021	Weekend	calm/rippled		calm/rippled					calm/rippled		calm/rippled
19 Jul 2021	Midweek			calm/rippled							
20 Jul 2021	Midweek					calm/rippled				choppy	
21 Jul 2021	Midweek						calm/rippled				
22 Jul 2021	Midweek	calm/rippled		calm/rippled	calm/rippled				calm/rippled		
23 Jul 2021	Midweek			choppy				choppy			calm/rippled
24 Jul 2021	Weekend							choppy			frequent whitecaps
25 Jul 2021	Weekend			choppy	choppy						
26 Jul 2021	Midweek			calm/rippled							choppy
27 Jul 2021	Midweek				choppy						
28 Jul 2021	Midweek			calm/rippled		calm/rippled	frequent whitecaps				
29 Jul 2021	Midweek					frequent whitecaps			calm/rippled		
30 Jul 2021	Midweek			calm/rippled				calm/rippled			choppy
31 Jul 2021	Weekend	calm/rippled		calm/rippled			choppy				choppy
01 Aug 2021	Weekend	choppy		large swells					frequent whitecaps		calm/rippled
02 Aug 2021	Weekend			calm/rippled							choppy
03 Aug 2021	Midweek			calm/rippled				choppy			choppy