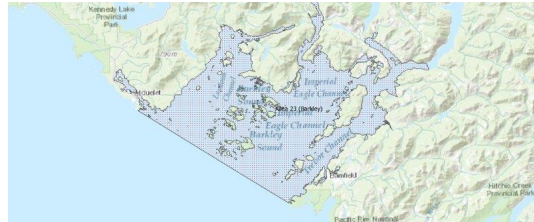


FISHERIES AND OCEANS CANADA

SOUTH COAST ASSESSMENT BULLETIN

CREEL SURVEY DATA REVIEW PACKAGE

Area 23 (Barkley) July 2023



Prepared By:
South Coast Salmon Stock Assessment Section

Sunday 14th January, 2024



Fisheries and Oceans
Canada

Pêches et Océans
Canada



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

Date	Day Type	China Creek		Clutesi Marina MD	Clutesi Ramp			Island West MD	McKay Bay Gas Dock			Mills Landing			Pat Leslie Boat Launch			Poett Nook		Ucluelet Gov Dock		
		AM	MD		AM	MD	PM		AM	MD	PM	AM	MD	PM	AM	MD	PM	AM	MD	AM	MD	PM
28 Jun 2023	Midweek																					1
29 Jun 2023	Midweek							1					5									
30 Jun 2023	Midweek																	7			3	
01 Jul 2023	Weekend											8									7	
02 Jul 2023	Weekend				2			3							9							
03 Jul 2023	Weekend						2														5	
04 Jul 2023	Midweek														1							
05 Jul 2023	Midweek													4								
06 Jul 2023	Midweek					2													12			9
07 Jul 2023	Midweek											12										
08 Jul 2023	Weekend																					
09 Jul 2023	Weekend					4					8									3		
10 Jul 2023	Midweek										10										16	
11 Jul 2023	Midweek															1						
12 Jul 2023	Midweek													5							3	
13 Jul 2023	Midweek						1	6	3													
14 Jul 2023	Midweek			2																1		
15 Jul 2023	Weekend											2									6	
16 Jul 2023	Weekend																	13				
17 Jul 2023	Midweek																		2			1
18 Jul 2023	Midweek												2									
19 Jul 2023	Midweek				3						7										4	
20 Jul 2023	Midweek										10											
21 Jul 2023	Midweek						1														5	
22 Jul 2023	Weekend																				7	
23 Jul 2023	Weekend	1				7																
24 Jul 2023	Midweek				3																3	
25 Jul 2023	Midweek													7						1		
26 Jul 2023	Midweek						6														4	
27 Jul 2023	Midweek	3						9				13										
28 Jul 2023	Midweek					2					23					2						
29 Jul 2023	Weekend				1				8													7
30 Jul 2023	Weekend		1											1						1		
31 Jul 2023	Midweek	4			1						11					1						
01 Aug 2023	Midweek								7												9	
02 Aug 2023	Midweek					4																
03 Aug 2023	Midweek	1			1									5								1

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-2023	Wednesday	calm/rippled	9	20	5					
29-Jun-2023	Thursday	choppy	8	23	4					
30-Jun-2023	Friday	calm/rippled	14	23	1			77	1202	130
01-Jul-2023	Saturday	frequent whitecaps	19	25	7			85	0729	123
02-Jul-2023	Sunday	choppy	17	13	1					
03-Jul-2023	Monday (Canada Day)	calm/rippled	10	20						
04-Jul-2023	Tuesday	calm/rippled	2	5						
05-Jul-2023	Wednesday	calm/rippled	4	2				45	0734	70
06-Jul-2023	Thursday	frequent whitecaps	23	19	9					
07-Jul-2023	Friday	choppy	16	17	1	2				
08-Jul-2023	Saturday		2	5				49	0728	71
09-Jul-2023	Sunday	calm/rippled	15	8		2				
10-Jul-2023	Monday	calm/rippled	29	29	5			47	0725	74
11-Jul-2023	Tuesday	calm/rippled	7	9						
12-Jul-2023	Wednesday	choppy	9	9	1					
13-Jul-2023	Thursday	choppy	12	11	2		3			
14-Jul-2023	Friday	choppy	3	2	1					
15-Jul-2023	Saturday	choppy	8	7						
16-Jul-2023	Sunday	choppy	15	6	1		3	78	1051	141
17-Jul-2023	Monday	choppy	3	6	3		1			
18-Jul-2023	Tuesday	choppy	5	12	5		4			
19-Jul-2023	Wednesday	choppy	17	16	17			56	0732	89
20-Jul-2023	Thursday	frequent whitecaps	10	18	11					
21-Jul-2023	Friday	calm/rippled	6	10	10					
22-Jul-2023	Saturday	calm/rippled	7	8	22					
23-Jul-2023	Sunday	calm/rippled	10	15	1	17		70	0722	104
24-Jul-2023	Monday	choppy	9	10	12	28				
25-Jul-2023	Tuesday	choppy	11	12	4			95	0733	148
26-Jul-2023	Wednesday	choppy	11	12	3					
27-Jul-2023	Thursday	choppy	26	26	36	2				
28-Jul-2023	Friday	choppy	27	19	11					
29-Jul-2023	Saturday	calm/rippled	17	16	18			83	0731	120
30-Jul-2023	Sunday	choppy	3	3	1					
31-Jul-2023	Monday	calm/rippled	17	19	11			50	0725	77
01-Aug-2023	Tuesday	choppy	12	5	19					
02-Aug-2023	Wednesday	calm/rippled	14	23	5		1	73	0727	113
03-Aug-2023	Thursday	calm/rippled	12	23	15					
	Totals	choppy	247	263	142	32	8	59*		92*
	Totals	choppy	123	126	51	19	3	73*		112*

* 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
Weekend	112	11	1232	1.024	0.415	0.154	0.024	1262	511	190	30
Midweek	92	20	1840	1.065	0.575	0.13	0.032	1960	1058	239	59

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

Year	Month	Total Effort	Chinook Kept	Coho Kept	Sockeye Kept	Halibut Kept
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
2022	July	3755	4487	4478	118	38
2023	July	3101	2648	1437	2291	33
5-Yr Avg	July	3408	3621	2794	93	39

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	263	26%	10%	1011	60%	2%	25
Chinook	767	41%	16%	1299	34%	9%	119

Table 6: Guided Proprtions Review.

Data Source	Interviews / Angler Days	Guided Proportion
Creel Interivews	367	25%
iRec Anglers	7471	22%

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

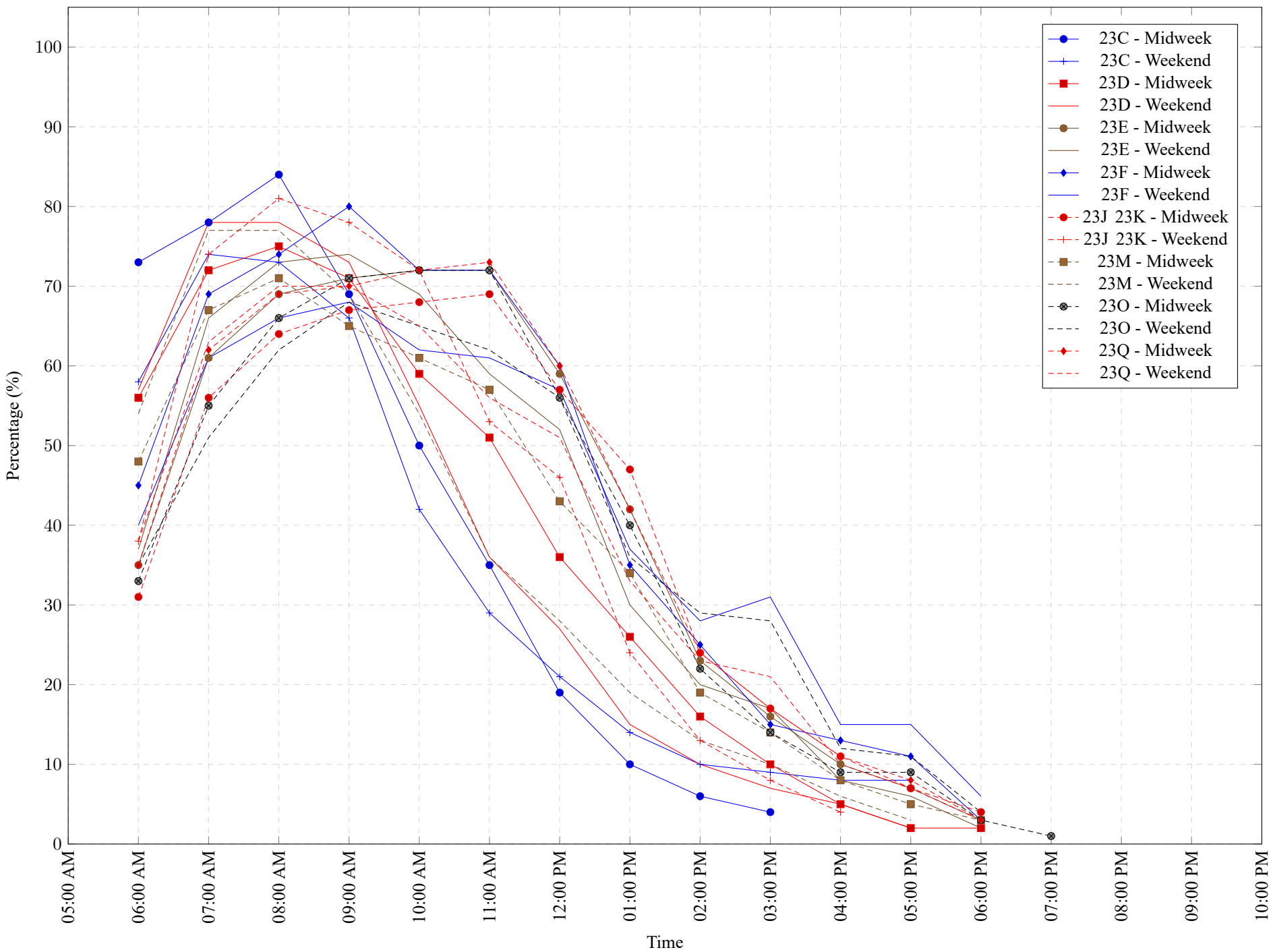


Table 7: Proportion of each day's fishing by hour.

Areas	Day Type	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	01:00 PM	02:00 PM	03:00 PM	04:00 PM	05:00 PM	06:00 PM	07:00 PM	08:00 PM	09:00 PM	10:00 PM
23C	Midweek	73%	78%	84%	69%	50%	35%	19%	10%	6%	4%	0%	0%	0%	0%	0%	0%	0%
23C	Weekend	58%	74%	73%	66%	42%	29%	21%	14%	10%	9%	8%	8%	0%	0%	0%	0%	0%
23D	Midweek	56%	72%	75%	71%	59%	51%	36%	26%	16%	10%	5%	2%	2%	0%	0%	0%	0%
23D	Weekend	57%	78%	78%	73%	55%	36%	27%	15%	10%	7%	5%	2%	0%	0%	0%	0%	0%
23E	Midweek	35%	61%	69%	71%	72%	72%	59%	42%	23%	16%	10%	7%	3%	0%	0%	0%	0%
23E	Weekend	37%	66%	73%	74%	69%	59%	52%	30%	20%	17%	8%	6%	2%	0%	0%	0%	0%
23F	Midweek	45%	69%	74%	80%	72%	72%	60%	35%	25%	15%	13%	11%	3%	0%	0%	0%	0%
23F	Weekend	40%	61%	66%	68%	62%	61%	57%	37%	28%	31%	15%	15%	6%	0%	0%	0%	0%
23J 23K	Midweek	31%	56%	64%	67%	68%	69%	57%	47%	24%	17%	11%	7%	4%	0%	0%	0%	0%
23J 23K	Weekend	38%	74%	81%	78%	72%	53%	46%	24%	13%	8%	4%	0%	0%	0%	0%	0%	0%
23M	Midweek	48%	67%	71%	65%	61%	57%	43%	34%	19%	14%	8%	5%	3%	0%	0%	0%	0%
23M	Weekend	54%	77%	77%	69%	54%	36%	28%	19%	13%	10%	6%	3%	0%	0%	0%	0%	0%
23O	Midweek	33%	55%	66%	71%	72%	72%	56%	40%	22%	14%	9%	9%	3%	1%	0%	0%	0%
23O	Weekend	35%	51%	62%	68%	65%	62%	56%	36%	29%	28%	12%	11%	4%	0%	0%	0%	0%
23Q	Midweek	35%	62%	69%	70%	72%	73%	60%	42%	24%	17%	11%	8%	3%	0%	0%	0%	0%
23Q	Weekend	38%	63%	70%	70%	65%	56%	51%	33%	23%	21%	10%	7%	3%	0%	0%	0%	0%

Table 8: Daily Fishing Conditions.

Date	Day Type	China Creek	Clutesi Marina	Clutesi Ramp	Island West	McKay Bay Gas Dock	Mills Landing	Pat Leslie Boat Launch	Poett Nook	Ucluelet Gov Dock
28 Jun 2023	Midweek									calm/rippled
29 Jun 2023	Midweek				calm/rippled		choppy			
30 Jun 2023	Midweek								calm/rippled	choppy
01 Jul 2023	Weekend						choppy			frequent whitecaps
02 Jul 2023	Weekend			choppy	calm/rippled			frequent whitecaps		
03 Jul 2023	Weekend			choppy						calm/rippled
04 Jul 2023	Midweek							calm/rippled		
05 Jul 2023	Midweek						calm/rippled			
06 Jul 2023	Midweek			calm/rippled					frequent whitecaps	frequent whitecaps
07 Jul 2023	Midweek					choppy				
08 Jul 2023	Weekend									
09 Jul 2023	Weekend			frequent whitecaps		calm/rippled				calm/rippled
10 Jul 2023	Midweek					calm/rippled				calm/rippled
11 Jul 2023	Midweek							calm/rippled		
12 Jul 2023	Midweek						choppy			calm/rippled
13 Jul 2023	Midweek			calm/rippled	choppy	choppy				
14 Jul 2023	Midweek		frequent whitecaps							choppy
15 Jul 2023	Weekend						choppy			calm/rippled
16 Jul 2023	Weekend								choppy	
17 Jul 2023	Midweek									choppy
18 Jul 2023	Midweek						choppy			choppy
19 Jul 2023	Midweek			choppy		frequent whitecaps				frequent whitecaps
20 Jul 2023	Midweek					frequent whitecaps				
21 Jul 2023	Midweek			choppy						calm/rippled
22 Jul 2023	Weekend									calm/rippled
23 Jul 2023	Weekend	calm/rippled		calm/rippled						
24 Jul 2023	Midweek			calm/rippled						large swells
25 Jul 2023	Midweek						choppy			frequent whitecaps
26 Jul 2023	Midweek			choppy						choppy
27 Jul 2023	Midweek	choppy			calm/rippled	choppy				
28 Jul 2023	Midweek			calm/rippled		choppy		choppy		
29 Jul 2023	Weekend			calm/rippled		calm/rippled				calm/rippled
30 Jul 2023	Weekend	frequent whitecaps					calm/rippled			choppy
31 Jul 2023	Midweek	calm/rippled		calm/rippled		calm/rippled		calm/rippled		
01 Aug 2023	Midweek									choppy
02 Aug 2023	Midweek			choppy		calm/rippled				
03 Aug 2023	Midweek	choppy		calm/rippled			calm/rippled			choppy