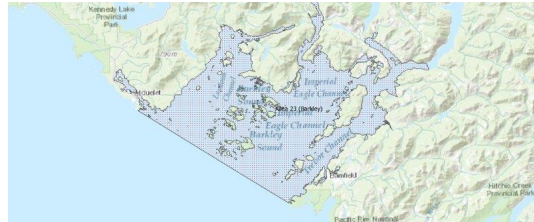


FISHERIES AND OCEANS CANADA

SOUTH COAST ASSESSMENT BULLETIN

CREEL SURVEY DATA REVIEW PACKAGE

Area 23 (Barkley) August 2021



Prepared By:

South Coast Salmon Stock Assessment Section

Thursday 19th January, 2023



Fisheries and Oceans
Canada

Pêches et Océans
Canada

**your
catch
counts**

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

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

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
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	187
01-Aug-2021	Sunday	frequent whitecaps	55	42	23			8	1337	23
02-Aug-2021	Monday (B.C. Day)	choppy	16	15	5					
03-Aug-2021	Tuesday	choppy	12	14	1			84	1146	179
04-Aug-2021	Wednesday	choppy	19	19	2					
05-Aug-2021	Thursday	calm/rippled	3	5	4					
06-Aug-2021	Friday	calm/rippled	7	8						
07-Aug-2021	Saturday	choppy	22	28	25					
08-Aug-2021	Sunday	calm/rippled	22	29	13			183	0726	246
09-Aug-2021	Monday	calm/rippled	8	13	8					
10-Aug-2021	Tuesday	calm/rippled	20	16	7					
11-Aug-2021	Wednesday	choppy	14	25	20			157	0726	217
12-Aug-2021	Thursday	calm/rippled	23	34	4					
13-Aug-2021	Friday	calm/rippled	8	7	5					
14-Aug-2021	Saturday	choppy	23	18	6			187	0934	229
15-Aug-2021	Sunday	calm/rippled	5	3	2					
16-Aug-2021	Monday	choppy	6	13	3					
17-Aug-2021	Tuesday	choppy	18	32	5			208	0859	280
18-Aug-2021	Wednesday	choppy	23	49	14					
19-Aug-2021	Thursday	frequent whitecaps	22	42	18					
20-Aug-2021	Friday	choppy	31	88	10					
21-Aug-2021	Saturday	choppy	12	28	7					
22-Aug-2021	Sunday	choppy	11	14	7			244	0728	325
23-Aug-2021	Monday	choppy	34	80	5					
24-Aug-2021	Tuesday	calm/rippled	22	43	3			180	0728	247
25-Aug-2021	Wednesday	choppy	16	54	4					
26-Aug-2021	Thursday	choppy	9	13	2					
27-Aug-2021	Friday	calm/rippled	37	67	7					
28-Aug-2021	Saturday	choppy	25	48	6					
29-Aug-2021	Sunday	choppy	9	18						
30-Aug-2021	Monday	frequent whitecaps	18	32	4					
31-Aug-2021	Tuesday	frequent whitecaps	29	58	8			119	0729	164
01-Sep-2021	Wednesday	choppy	13	30	4					
02-Sep-2021	Thursday	calm/rippled	2	3	1			122	0730	168
03-Sep-2021	Friday	choppy	22	12	6					
	Totals	choppy	379	712	134			150*		217*
	Totals	choppy	200	243	94			156*		206*

* 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	217	21	4557	1.879	0.354			8563	1613		
Weekend	206	10	2060	1.215	0.47			2503	968		

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

Year	Month	Total Effort	Chinook Kept	Coho Kept	Sockeye Kept	Halibut Kept
2016	August	5830	4975	3378	224	3
2017	August	7350	6202	1807	3	277
2018	August	6703	6760	2877	94	
2019	August	7114	6830	4400		91
2020	August	5499	6816	1288		18
2021	August	6869	11005	2782	0	0
5-Yr Avg	August	6499	6317	2750	107	97

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	996	41%	9%	2280	65%	4%	93
Chinook	1163	15%	16%	2946	27%	6%	190

Table 6: Guided Proprtions Review.

Data Source	Interviews / Angler Days	Guided Proportion
Creel Interivews	578	23%
iRec Anglers	15448	13%

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

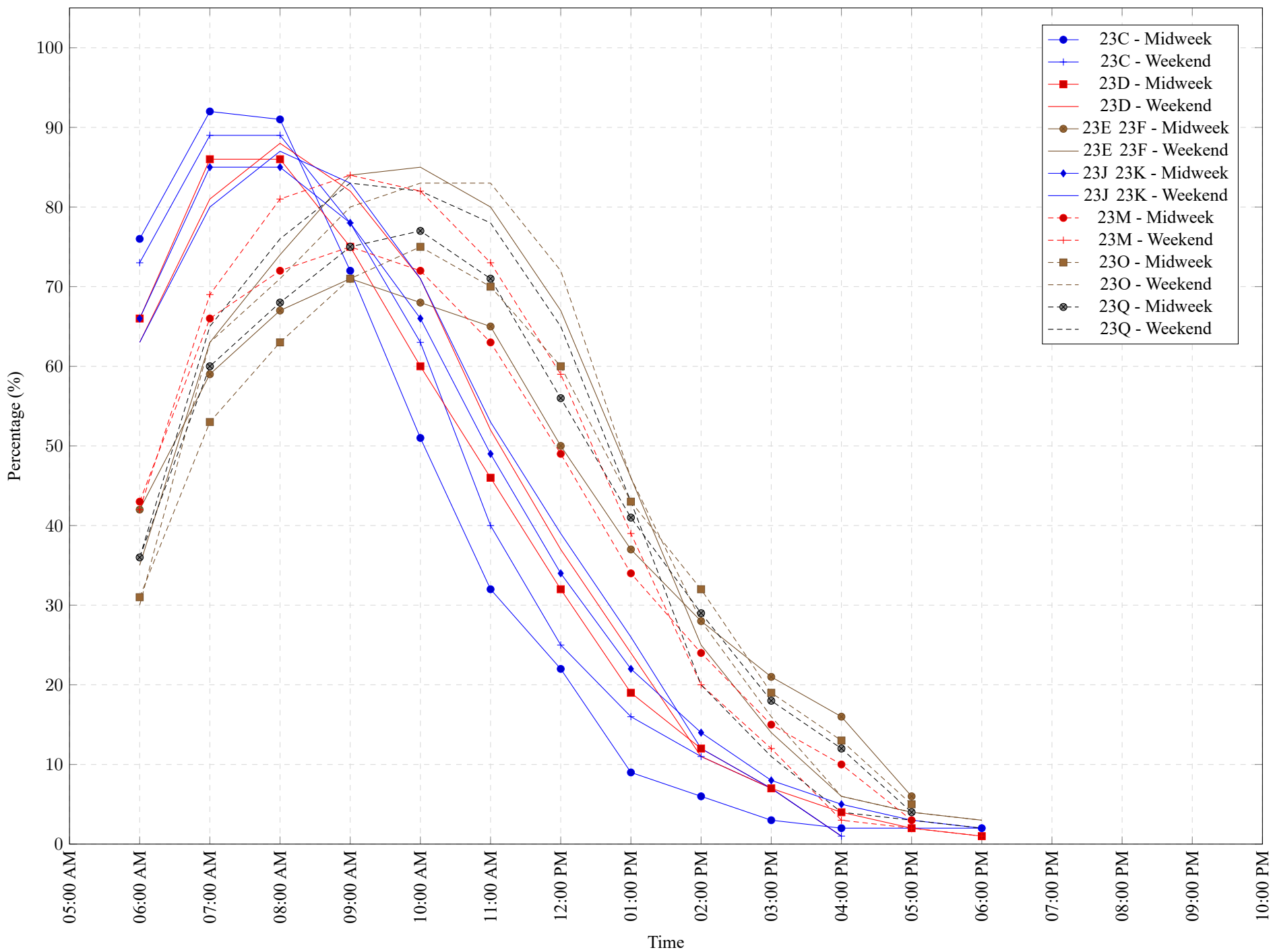


Table 7: Proportion of each day's fishing by hour.

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	76%	92%	91%	72%	51%	32%	22%	9%	6%	3%	2%	2%	2%	0%	0%	0%	0%
23C	Weekend	73%	89%	89%	78%	63%	40%	25%	16%	11%	7%	1%	0%	0%	0%	0%	0%	0%
23D	Midweek	66%	86%	86%	75%	60%	46%	32%	19%	12%	7%	4%	2%	1%	0%	0%	0%	0%
23D	Weekend	63%	81%	88%	82%	71%	52%	37%	24%	11%	7%	1%	0%	0%	0%	0%	0%	0%
23E 23F	Midweek	42%	59%	67%	71%	68%	65%	50%	37%	28%	21%	16%	6%	0%	0%	0%	0%	0%
23E 23F	Weekend	35%	63%	74%	84%	85%	80%	67%	46%	25%	14%	6%	4%	3%	0%	0%	0%	0%
23J 23K	Midweek	66%	85%	85%	78%	66%	49%	34%	22%	14%	8%	5%	3%	2%	0%	0%	0%	0%
23J 23K	Weekend	63%	80%	87%	83%	71%	53%	39%	26%	12%	7%	1%	0%	0%	0%	0%	0%	0%
23M	Midweek	43%	66%	72%	75%	72%	63%	49%	34%	24%	15%	10%	3%	0%	0%	0%	0%	0%
23M	Weekend	42%	69%	81%	84%	82%	73%	59%	39%	20%	12%	3%	2%	1%	0%	0%	0%	0%
23O	Midweek	31%	53%	63%	71%	75%	70%	60%	43%	32%	19%	13%	5%	0%	0%	0%	0%	0%
23O	Weekend	30%	63%	71%	80%	83%	83%	72%	46%	28%	16%	6%	4%	3%	0%	0%	0%	0%
23Q	Midweek	36%	60%	68%	75%	77%	71%	56%	41%	29%	18%	12%	4%	0%	0%	0%	0%	0%
23Q	Weekend	36%	65%	76%	83%	82%	78%	65%	43%	20%	11%	4%	3%	2%	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	Tyee Landing (Fuel Dock)	Ucluelet Gov Dock
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
04 Aug 2021	Midweek						choppy				
05 Aug 2021	Midweek				calm/rippled						
06 Aug 2021	Midweek					calm/rippled					calm/rippled
07 Aug 2021	Weekend	calm/rippled	calm/rippled			choppy		choppy			choppy
08 Aug 2021	Weekend			calm/rippled					calm/rippled		
09 Aug 2021	Midweek				calm/rippled			calm/rippled			
10 Aug 2021	Midweek			calm/rippled		calm/rippled			calm/rippled		
11 Aug 2021	Midweek	calm/rippled								calm/rippled	choppy
12 Aug 2021	Midweek	choppy					calm/rippled				choppy
13 Aug 2021	Midweek	calm/rippled						calm/rippled			calm/rippled
14 Aug 2021	Weekend	frequent whitecaps		calm/rippled	calm/rippled		choppy				
15 Aug 2021	Weekend	choppy				calm/rippled					calm/rippled
16 Aug 2021	Midweek				choppy						
17 Aug 2021	Midweek	calm/rippled									choppy
18 Aug 2021	Midweek	frequent whitecaps		calm/rippled		choppy					
19 Aug 2021	Midweek							choppy			frequent whitecaps
20 Aug 2021	Midweek	choppy		calm/rippled			choppy				frequent whitecaps
21 Aug 2021	Weekend				calm/rippled			choppy			
22 Aug 2021	Weekend										choppy
23 Aug 2021	Midweek			calm/rippled		choppy					choppy
24 Aug 2021	Midweek						calm/rippled				
25 Aug 2021	Midweek			calm/rippled				choppy			
26 Aug 2021	Midweek		choppy		choppy	choppy					
27 Aug 2021	Midweek	calm/rippled	calm/rippled				calm/rippled				calm/rippled
28 Aug 2021	Weekend			calm/rippled		calm/rippled	choppy				calm/rippled
29 Aug 2021	Weekend	choppy									
30 Aug 2021	Midweek	choppy			frequent whitecaps			frequent whitecaps			
31 Aug 2021	Midweek	choppy						frequent whitecaps			choppy
01 Sep 2021	Midweek	calm/rippled						frequent whitecaps			
02 Sep 2021	Midweek			calm/rippled				choppy			
03 Sep 2021	Midweek					calm/rippled	choppy				