

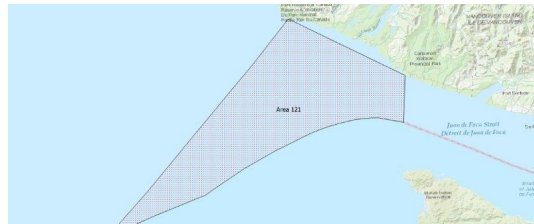
# FISHERIES AND OCEANS CANADA

## SOUTH COAST ASSESSMENT BULLETIN

### CREEL SURVEY DATA REVIEW PACKAGE

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## Area 121 August 2022



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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 | Pacific Gateway Marina |    |    | Port Renfrew Marina |    |
|-------------|----------|------------------------|----|----|---------------------|----|
|             |          | AM                     | MD | PM | MD                  | PM |
| 29 Jul 2022 | Midweek  |                        |    |    | 1                   |    |
| 30 Jul 2022 | Weekend  |                        | 12 |    |                     |    |
| 31 Jul 2022 | Weekend  |                        |    |    | 1                   |    |
| 01 Aug 2022 | Weekend  |                        |    |    |                     |    |
| 02 Aug 2022 | Midweek  |                        |    | 5  |                     |    |
| 03 Aug 2022 | Midweek  |                        |    |    | 1                   |    |
| 04 Aug 2022 | Midweek  |                        | 8  |    | 1                   |    |
| 05 Aug 2022 | Midweek  |                        | 12 |    |                     |    |
| 06 Aug 2022 | Weekend  |                        |    |    | 3                   |    |
| 07 Aug 2022 | Weekend  |                        | 10 |    |                     |    |
| 08 Aug 2022 | Midweek  |                        |    |    |                     |    |
| 09 Aug 2022 | Midweek  |                        |    |    |                     |    |
| 10 Aug 2022 | Midweek  |                        | 13 |    |                     |    |
| 11 Aug 2022 | Midweek  |                        | 18 |    | 2                   |    |
| 12 Aug 2022 | Midweek  | 3                      |    |    | 3                   |    |
| 13 Aug 2022 | Weekend  |                        |    |    | 1                   |    |
| 14 Aug 2022 | Weekend  |                        |    |    |                     |    |
| 15 Aug 2022 | Midweek  |                        | 13 |    | 1                   |    |
| 16 Aug 2022 | Midweek  |                        |    |    | 2                   |    |
| 17 Aug 2022 | Midweek  |                        | 5  |    |                     | 2  |
| 18 Aug 2022 | Midweek  |                        | 9  |    | 1                   |    |
| 19 Aug 2022 | Midweek  | 1                      |    |    | 1                   |    |
| 20 Aug 2022 | Weekend  |                        |    |    | 3                   |    |
| 21 Aug 2022 | Weekend  |                        | 6  |    |                     |    |
| 22 Aug 2022 | Midweek  |                        |    |    |                     |    |
| 23 Aug 2022 | Midweek  |                        |    | 2  |                     |    |
| 24 Aug 2022 | Midweek  |                        |    |    |                     |    |
| 25 Aug 2022 | Midweek  |                        | 10 |    |                     |    |
| 26 Aug 2022 | Midweek  |                        |    |    | 1                   |    |
| 27 Aug 2022 | Weekend  |                        | 1  |    |                     |    |
| 28 Aug 2022 | Weekend  |                        |    |    |                     |    |
| 29 Aug 2022 | Midweek  |                        | 6  |    | 3                   |    |
| 30 Aug 2022 | Midweek  |                        |    |    |                     |    |
| 31 Aug 2022 | Midweek  |                        | 1  |    |                     |    |
| 01 Sep 2022 | Midweek  |                        | 2  |    |                     |    |
| 02 Sep 2022 | Midweek  |                        |    |    |                     |    |
| 03 Sep 2022 | Weekend  |                        |    |    |                     |    |

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-2022 | Friday            | choppy                     | 1                      | 8       | 8    |         | 5       |                  |             |                  |
| 30-Jul-2022 | Saturday          | calm/rippled               | 12                     | 71      | 20   |         | 44      |                  |             |                  |
| 31-Jul-2022 | Sunday            | choppy                     | 1                      |         |      |         |         | 0                | 0823        | 0                |
| 01-Aug-2022 | Monday (B.C. Day) |                            | 0                      |         |      |         |         |                  |             |                  |
| 02-Aug-2022 | Tuesday           | choppy                     | 5                      | 16      | 1    |         | 5       |                  |             |                  |
| 03-Aug-2022 | Wednesday         | choppy                     | 1                      |         | 2    |         |         |                  |             |                  |
| 04-Aug-2022 | Thursday          | calm/rippled               | 9                      | 72      | 8    |         | 19      | 28               | 0841        | 42               |
| 05-Aug-2022 | Friday            | choppy                     | 12                     | 100     | 42   |         | 20      |                  |             |                  |
| 06-Aug-2022 | Saturday          | calm/rippled               | 3                      | 11      | 15   |         | 1       | 57               | 0838        | 67               |
| 07-Aug-2022 | Sunday            | calm/rippled               | 10                     | 76      | 22   |         | 10      |                  |             |                  |
| 08-Aug-2022 | Monday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 09-Aug-2022 | Tuesday           |                            | 0                      |         |      |         |         |                  |             |                  |
| 10-Aug-2022 | Wednesday         | calm/rippled               | 13                     | 87      | 47   |         | 14      | 34               | 1130        | 51               |
| 11-Aug-2022 | Thursday          | calm/rippled               | 20                     | 95      | 95   |         | 20      |                  |             |                  |
| 12-Aug-2022 | Friday            | calm/rippled               | 6                      | 40      | 10   |         | 22      |                  |             |                  |
| 13-Aug-2022 | Saturday          | calm/rippled               | 1                      | 7       |      |         |         |                  |             |                  |
| 14-Aug-2022 | Sunday            |                            | 0                      |         |      |         |         | 28               | 0832        | 33               |
| 15-Aug-2022 | Monday            | choppy                     | 14                     | 60      | 56   |         | 20      |                  |             |                  |
| 16-Aug-2022 | Tuesday           | choppy                     | 2                      | 8       | 3    |         | 3       |                  |             |                  |
| 17-Aug-2022 | Wednesday         | choppy                     | 7                      | 22      | 7    |         | 19      | 19               | 0829        | 29               |
| 18-Aug-2022 | Thursday          | choppy                     | 10                     | 47      | 20   |         | 38      |                  |             |                  |
| 19-Aug-2022 | Friday            | choppy                     | 2                      | 6       |      |         | 2       |                  |             |                  |
| 20-Aug-2022 | Saturday          | choppy                     | 3                      | 4       | 1    |         | 3       |                  |             |                  |
| 21-Aug-2022 | Sunday            | choppy                     | 6                      | 35      | 26   |         | 12      | 11               | 0832        | 13               |
| 22-Aug-2022 | Monday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 23-Aug-2022 | Tuesday           | choppy                     | 2                      |         | 3    |         | 4       |                  |             |                  |
| 24-Aug-2022 | Wednesday         |                            | 0                      |         |      |         |         | 16               | 1046        | 25               |
| 25-Aug-2022 | Thursday          | choppy                     | 10                     | 19      | 1    |         | 51      |                  |             |                  |
| 26-Aug-2022 | Friday            | choppy                     | 1                      | 1       |      |         |         |                  |             |                  |
| 27-Aug-2022 | Saturday          | frequent whitecaps         | 1                      |         |      |         | 8       | 3                | 0850        | 4                |
| 28-Aug-2022 | Sunday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 29-Aug-2022 | Monday            | calm/rippled               | 9                      | 13      | 1    |         | 12      | 15               | 0826        | 23               |
| 30-Aug-2022 | Tuesday           |                            | 0                      |         |      |         |         |                  |             |                  |
| 31-Aug-2022 | Wednesday         | large swells               | 1                      | 2       |      |         |         |                  |             |                  |
| 01-Sep-2022 | Thursday          | calm/rippled               | 2                      | 8       | 2    |         |         |                  |             |                  |
| 02-Sep-2022 | Friday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 03-Sep-2022 | Saturday          |                            | 0                      |         |      |         |         |                  |             |                  |
|             | Totals            | choppy                     | 124                    | 588     | 296  |         | 249     | 22*              |             | 34*              |
|             | Totals            | choppy                     | 24                     | 133     | 64   |         | 34      | 25*              |             | 29*              |

\* 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  | 34                     | 22             | 748                    | 4.742   | 2.387 |         | 2.008   | 3547     | 1785 |         | 1502    |
| Weekend  | 29                     | 9              | 261                    | 5.542   | 2.667 |         | 1.417   | 1446     | 696  |         | 370     |

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

| Year     | Month  | Total Effort | Chinook Kept | Coho Kept | Sockeye Kept | Halibut Kept |
|----------|--------|--------------|--------------|-----------|--------------|--------------|
| 2017     | August | 807          | 2483         | 2732      |              | 833          |
| 2018     | August | 1102         | 1335         | 4451      | 724          | 2298         |
| 2019     | August | 621          | 2017         | 1710      |              | 1130         |
| 2020     | August | 686          | 1201         | 1709      |              | 1498         |
| 2021     | August | 221          | 128          | 276       | 0            | 472          |
| 2022     | August | 958          | 4160         | 1895      |              | 1535         |
| 5-Yr Avg | August | 687          | 1433         | 2176      | 362          | 1246         |

**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    | 1881               | 99%             | 0%                    | 1296              | 100%           | 0%                   | 1                     |
| Chinook | 1200               | 41%             | 4%                    | 782               | 40%            | 5%                   | 43                    |

**Table 6: Guided Proprtions Review.**

| Data Source      | Interviews / Angler Days | Guided Proportion |
|------------------|--------------------------|-------------------|
| Creel Interivews | 148                      | 57%               |
| iRec Anglers     | 1998                     | 64%               |

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

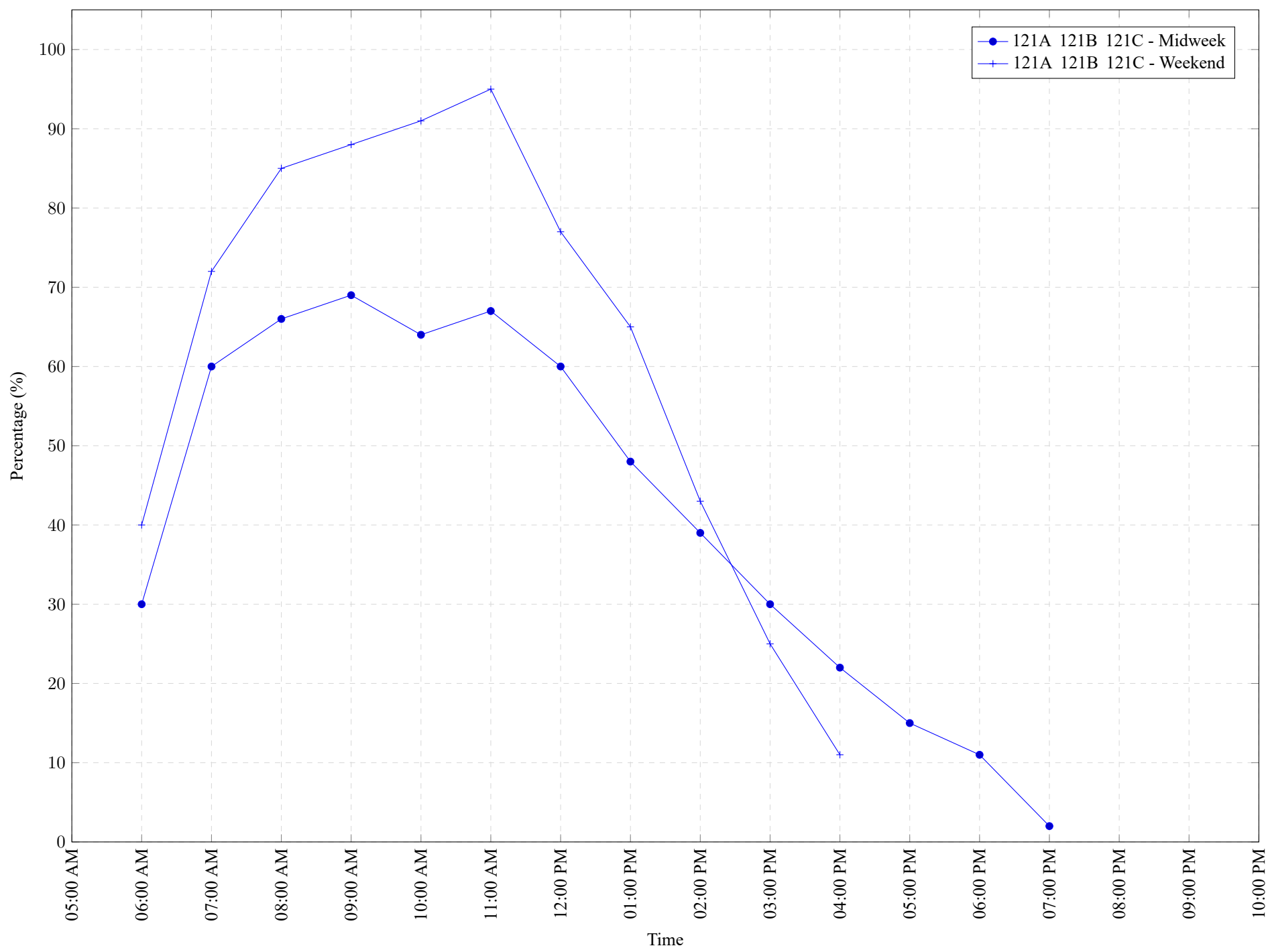


Table 7: Proportion of each day's fishing by hour.

| 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 |
|-------|------|------|----------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 121A  | 121B | 121C | Midweek  | 30%     | 60%     | 66%     | 69%     | 64%      | 67%      | 60%      | 48%      | 39%      | 30%      | 22%      | 15%      | 11%      | 2%       | 0%       | 0%       | 0%       |
| 121A  | 121B | 121C | Weekend  | 40%     | 72%     | 85%     | 88%     | 91%      | 95%      | 77%      | 65%      | 43%      | 25%      | 11%      | 0%       | 0%       | 0%       | 0%       | 0%       | 0%       |

**Table 8: Daily Fishing Conditions.**

| Date        | Day Type | Pacific Gateway Marina | Port Renfrew Marina |
|-------------|----------|------------------------|---------------------|
| 29 Jul 2022 | Midweek  |                        | choppy              |
| 30 Jul 2022 | Weekend  | calm/rippled           |                     |
| 31 Jul 2022 | Weekend  |                        | choppy              |
| 01 Aug 2022 | Weekend  |                        |                     |
| 02 Aug 2022 | Midweek  | choppy                 |                     |
| 03 Aug 2022 | Midweek  |                        | choppy              |
| 04 Aug 2022 | Midweek  | calm/rippled           | calm/rippled        |
| 05 Aug 2022 | Midweek  | choppy                 |                     |
| 06 Aug 2022 | Weekend  |                        | calm/rippled        |
| 07 Aug 2022 | Weekend  | calm/rippled           |                     |
| 08 Aug 2022 | Midweek  |                        |                     |
| 09 Aug 2022 | Midweek  |                        |                     |
| 10 Aug 2022 | Midweek  | calm/rippled           |                     |
| 11 Aug 2022 | Midweek  | calm/rippled           | calm/rippled        |
| 12 Aug 2022 | Midweek  | calm/rippled           | calm/rippled        |
| 13 Aug 2022 | Weekend  |                        | calm/rippled        |
| 14 Aug 2022 | Weekend  |                        |                     |
| 15 Aug 2022 | Midweek  | choppy                 | choppy              |
| 16 Aug 2022 | Midweek  |                        | choppy              |
| 17 Aug 2022 | Midweek  | choppy                 | choppy              |
| 18 Aug 2022 | Midweek  | choppy                 | choppy              |
| 19 Aug 2022 | Midweek  | choppy                 | choppy              |
| 20 Aug 2022 | Weekend  |                        | choppy              |
| 21 Aug 2022 | Weekend  | choppy                 |                     |
| 22 Aug 2022 | Midweek  |                        |                     |
| 23 Aug 2022 | Midweek  | choppy                 |                     |
| 24 Aug 2022 | Midweek  |                        |                     |
| 25 Aug 2022 | Midweek  | choppy                 |                     |
| 26 Aug 2022 | Midweek  |                        | choppy              |
| 27 Aug 2022 | Weekend  | frequent whitecaps     |                     |
| 28 Aug 2022 | Weekend  |                        |                     |
| 29 Aug 2022 | Midweek  | calm/rippled           | calm/rippled        |
| 30 Aug 2022 | Midweek  |                        |                     |
| 31 Aug 2022 | Midweek  | large swells           |                     |
| 01 Sep 2022 | Midweek  | calm/rippled           |                     |
| 02 Sep 2022 | Midweek  |                        |                     |
| 03 Sep 2022 | Weekend  |                        |                     |