

# FISHERIES AND OCEANS CANADA

## SOUTH COAST ASSESSMENT BULLETIN

### CREEL SURVEY DATA REVIEW PACKAGE

---

## Area 23 (Alberni Canal) August 2024



---

*Prepared By:*  
South Coast Salmon Stock Assessment Section

Wednesday 13<sup>th</sup> November, 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 |    | Clutesi Ramp |    |    | Fisherman's Harbour |    |    |
|-------------|----------|-------------|----|----|----------------|----|--------------|----|----|---------------------|----|----|
|             |          | AM          | MD | PM | AM             | PM | AM           | MD | PM | AM                  | MD | PM |
| 29 Jul 2024 | Midweek  | 6           |    |    |                |    |              |    |    |                     |    |    |
| 30 Jul 2024 | Midweek  |             | 2  |    |                |    |              |    |    |                     |    |    |
| 31 Jul 2024 | Midweek  |             |    |    |                |    | 2            |    |    |                     |    |    |
| 01 Aug 2024 | Midweek  | 4           |    |    |                |    |              |    |    |                     |    |    |
| 02 Aug 2024 | Midweek  | 7           |    |    |                |    |              | 2  |    |                     |    |    |
| 03 Aug 2024 | Weekend  |             |    |    |                |    | 9            |    |    |                     |    |    |
| 04 Aug 2024 | Weekend  |             |    |    |                |    |              |    |    |                     |    |    |
| 05 Aug 2024 | Weekend  |             | 2  |    |                |    | 3            |    |    |                     |    |    |
| 06 Aug 2024 | Midweek  |             |    |    | 3              |    |              | 4  |    |                     |    |    |
| 07 Aug 2024 | Midweek  | 7           |    |    |                |    |              |    |    |                     |    |    |
| 08 Aug 2024 | Midweek  |             |    |    |                |    |              |    |    |                     |    |    |
| 09 Aug 2024 | Midweek  |             | 7  |    |                |    |              |    |    |                     | 2  |    |
| 10 Aug 2024 | Weekend  | 8           |    |    |                |    | 17           |    |    |                     |    |    |
| 11 Aug 2024 | Weekend  |             |    |    |                |    |              | 3  |    |                     |    |    |
| 12 Aug 2024 | Midweek  | 13          |    |    |                |    |              |    | 2  |                     |    |    |
| 13 Aug 2024 | Midweek  |             |    |    |                | 1  | 10           |    |    |                     |    |    |
| 14 Aug 2024 | Midweek  | 16          |    |    |                |    | 8            |    |    |                     |    |    |
| 15 Aug 2024 | Midweek  |             |    |    |                |    |              |    |    |                     | 2  |    |
| 16 Aug 2024 | Midweek  | 15          |    |    |                |    |              |    |    |                     |    |    |
| 17 Aug 2024 | Weekend  |             |    |    |                |    |              |    |    |                     |    |    |
| 18 Aug 2024 | Weekend  |             |    |    | 16             |    | 7            |    |    |                     |    |    |
| 19 Aug 2024 | Midweek  |             |    |    |                |    |              |    |    |                     |    |    |
| 20 Aug 2024 | Midweek  |             |    |    |                |    |              |    | 5  |                     |    |    |
| 21 Aug 2024 | Midweek  |             |    | 3  |                |    |              |    |    |                     |    |    |
| 22 Aug 2024 | Midweek  |             |    |    |                |    |              | 5  |    |                     |    |    |
| 23 Aug 2024 | Midweek  |             |    |    | 6              |    |              |    |    |                     |    |    |
| 24 Aug 2024 | Weekend  |             |    |    |                |    | 10           |    |    |                     |    |    |
| 25 Aug 2024 | Weekend  |             | 7  |    |                |    |              |    |    |                     |    |    |
| 26 Aug 2024 | Midweek  |             |    |    |                |    |              |    | 4  |                     |    |    |
| 27 Aug 2024 | Midweek  |             |    |    |                |    |              |    |    |                     |    | 1  |
| 28 Aug 2024 | Midweek  |             |    |    |                |    | 10           |    |    |                     |    |    |
| 29 Aug 2024 | Midweek  |             |    |    |                |    | 10           |    |    |                     |    |    |
| 30 Aug 2024 | Midweek  |             |    |    |                |    |              |    |    |                     |    |    |
| 31 Aug 2024 | Weekend  |             | 10 |    |                |    |              |    |    | 16                  |    |    |
| 01 Sep 2024 | Weekend  | 13          |    |    |                |    |              |    |    |                     |    |    |
| 02 Sep 2024 | Weekend  | 13          |    |    |                |    |              |    |    | 13                  |    |    |
| 03 Sep 2024 | Midweek  |             |    |    |                |    | 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 |
|-------------|---------------------|----------------------------|------------------------|---------|------|---------|---------|------------------|-------------|------------------|
| 29-Jul-2024 | Monday              | choppy                     | 6                      |         |      | 22      |         | 11               | 0912        | 14               |
| 30-Jul-2024 | Tuesday             | frequent whitecaps         | 2                      |         |      | 6       |         | 30               | 0740        | 36               |
| 31-Jul-2024 | Wednesday           | calm/rippled               | 2                      |         |      | 4       |         | 29               | 1056        | 58               |
| 01-Aug-2024 | Thursday            | choppy                     | 4                      |         | 1    | 9       |         | 108              | 0753        | 130              |
| 02-Aug-2024 | Friday              | calm/rippled               | 9                      |         |      | 29      |         | 7                | 0958        | 9                |
| 03-Aug-2024 | Saturday            | choppy                     | 9                      |         |      | 2       |         |                  |             |                  |
| 04-Aug-2024 | Sunday              |                            | 0                      |         |      |         |         | 47               | 1125        | 134              |
| 05-Aug-2024 | Monday (B.C. Day)   | choppy                     | 5                      |         |      | 20      |         |                  |             |                  |
| 06-Aug-2024 | Tuesday             | choppy                     | 7                      | 1       |      | 13      |         | 28               | 1008        | 37               |
| 07-Aug-2024 | Wednesday           | choppy                     | 7                      | 1       |      | 13      |         | 3                | 1435        | 23               |
| 08-Aug-2024 | Thursday            |                            | 0                      |         |      |         |         | 39               | 0832        | 45               |
| 09-Aug-2024 | Friday              | frequent whitecaps         | 9                      | 6       | 1    | 16      |         | 39               | 1034        | 77               |
| 10-Aug-2024 | Saturday            | choppy                     | 25                     | 11      | 1    | 16      |         | 146              | 0947        | 171              |
| 11-Aug-2024 | Sunday              | frequent whitecaps         | 3                      | 2       |      | 1       |         |                  |             |                  |
| 12-Aug-2024 | Monday              | frequent whitecaps         | 15                     | 7       | 1    | 5       |         | 244              | 0846        | 269              |
| 13-Aug-2024 | Tuesday             | frequent whitecaps         | 11                     | 3       |      | 3       |         |                  |             |                  |
| 14-Aug-2024 | Wednesday           | choppy                     | 24                     | 11      | 3    | 16      |         |                  |             |                  |
| 15-Aug-2024 | Thursday            | frequent whitecaps         | 2                      | 1       |      |         |         |                  |             |                  |
| 16-Aug-2024 | Friday              | choppy                     | 15                     | 13      | 1    | 3       |         |                  |             |                  |
| 17-Aug-2024 | Saturday            |                            | 0                      |         |      |         |         | 220              | 1033        | 374              |
| 18-Aug-2024 | Sunday              | frequent whitecaps         | 23                     | 32      |      |         |         |                  |             |                  |
| 19-Aug-2024 | Monday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 20-Aug-2024 | Tuesday             | choppy                     | 5                      |         |      |         |         | 29               | 0927        | 36               |
| 21-Aug-2024 | Wednesday           | choppy                     | 3                      | 4       |      |         |         |                  |             |                  |
| 22-Aug-2024 | Thursday            | choppy                     | 5                      | 2       |      |         |         | 221              | 0921        | 271              |
| 23-Aug-2024 | Friday              | choppy                     | 6                      | 2       | 2    |         |         |                  |             |                  |
| 24-Aug-2024 | Saturday            | frequent whitecaps         | 10                     | 4       | 2    |         |         | 262              | 0843        | 277              |
| 25-Aug-2024 | Sunday              | frequent whitecaps         | 7                      | 3       |      | 1       |         |                  |             |                  |
| 26-Aug-2024 | Monday              | choppy                     | 4                      | 1       |      |         |         | 6                | 1017        | 12               |
| 27-Aug-2024 | Tuesday             | choppy                     | 1                      | 2       |      |         |         | 165              | 0811        | 181              |
| 28-Aug-2024 | Wednesday           | choppy                     | 10                     | 11      |      | 1       |         | 13               | 1202        | 41               |
| 29-Aug-2024 | Thursday            | calm/rippled               | 10                     | 1       | 1    |         |         | 115              | 0720        | 138              |
| 30-Aug-2024 | Friday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 31-Aug-2024 | Saturday            | choppy                     | 26                     | 50      | 8    |         |         | 486              | 0811        | 515              |
| 01-Sep-2024 | Sunday              | choppy                     | 13                     | 22      | 5    |         |         |                  |             |                  |
| 02-Sep-2024 | Monday (Labour Day) | calm/rippled               | 26                     | 25      | 4    | 2       |         | 105              | 1416        | 4450             |
| 03-Sep-2024 | Tuesday             | choppy                     | 1                      | 1       |      |         |         |                  |             |                  |
|             | Totals              | choppy                     | 147                    | 66      | 10   | 108     |         | 78*              |             | 98*              |
|             | Totals              | frequent whitecaps         | 108                    | 102     | 11   | 40      |         | 232*             |             | 294*             |

\* 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  | 294                    | 10             | 2940                   | 0.944   | 0.102 | 0.37    |         | 2775     | 300  | 1088    |         |
| Midweek  | 98                     | 21             | 2058                   | 0.449   | 0.068 | 0.735   |         | 924      | 140  | 1513    |         |

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

| Year     | Month  | Total Effort | Chinook Kept | Coho Kept | Sockeye Kept | Halibut Kept |
|----------|--------|--------------|--------------|-----------|--------------|--------------|
| 2019     | August | 4689         | 5442         | 343       | 0            | 0            |
| 2020     | August | 4500         | 4971         | 141       |              | 1            |
| 2021     | August | 4714         | 6659         | 627       | 28           | 0            |
| 2022     | August | 5855         | 8306         | 366       | 4125         | 0            |
| 2023     | August | 4730         | 6844         | 418       | 275          | 0            |
| 2024     | August | 3807         | 2895         | 399       | 1626         | 0            |
| 5-Yr Avg | August | 4898         | 6444         | 379       | 1107         | 0            |

**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 |
|---------|--------------------|-----------------|-----------------------|-------------------|----------------|----------------------|-----------------------|
|---------|--------------------|-----------------|-----------------------|-------------------|----------------|----------------------|-----------------------|

**Table 6: Guided Proprtions Review.**

| Data Source      | Interviews / Angler Days | Guided Proportion |
|------------------|--------------------------|-------------------|
| Creel Interivews | 255                      | 0%                |
| iRec Anglers     | 9356                     | 3%                |

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

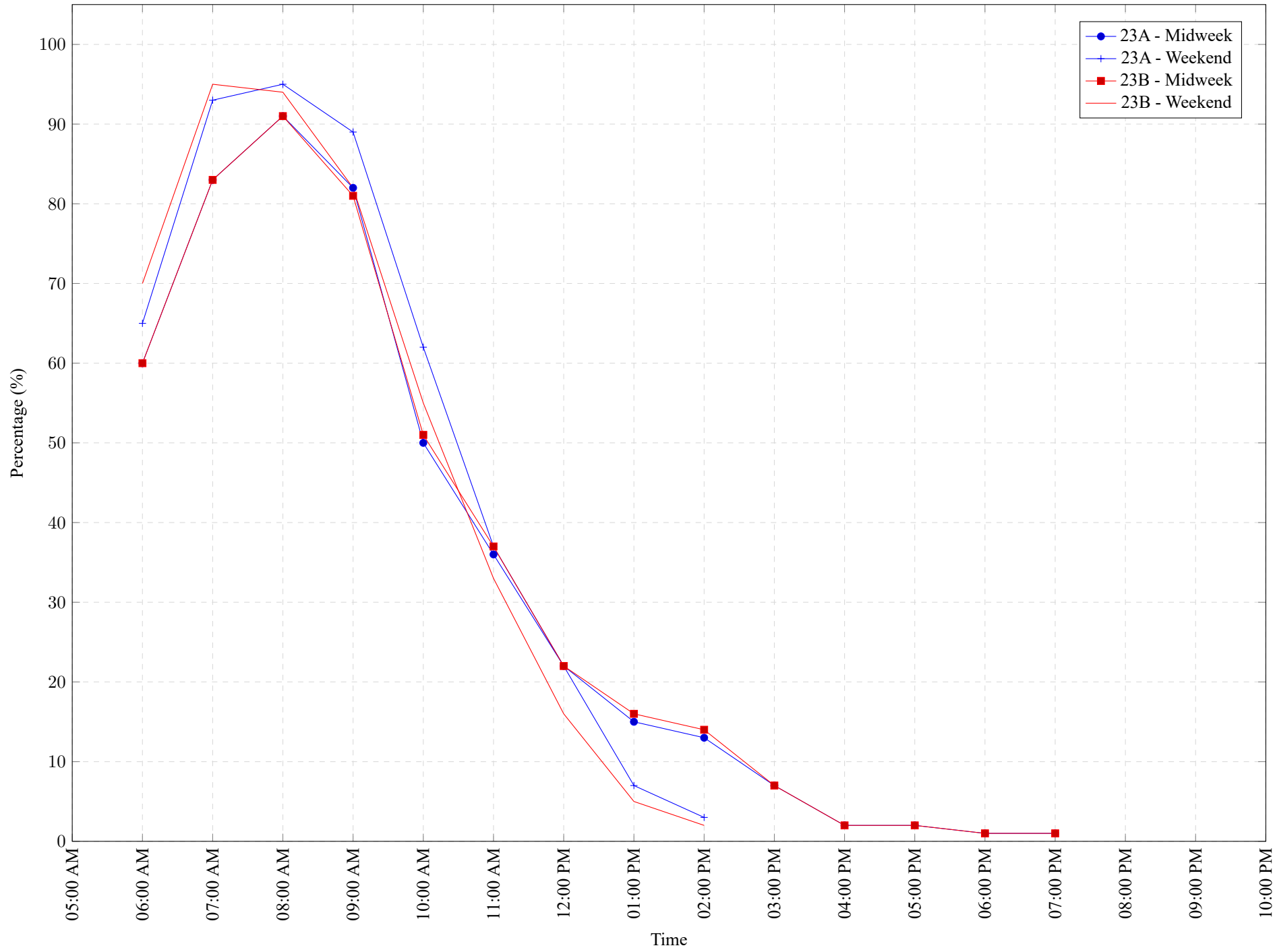


Table 7: Proportion of each day's fishing by hour.

| 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    | PM    | PM    | PM    | PM    | PM    | PM    | PM    | PM    | PM    | PM    |
| 23A   | Midweek  | 60%  | 83%  | 91%  | 82%  | 50%   | 36%   | 22%   | 15%   | 13%   | 7%    | 2%    | 2%    | 1%    | 1%    | 0%    | 0%    | 0%    |
| 23A   | Weekend  | 65%  | 93%  | 95%  | 89%  | 62%   | 37%   | 22%   | 7%    | 3%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    |
| 23B   | Midweek  | 60%  | 83%  | 91%  | 81%  | 51%   | 37%   | 22%   | 16%   | 14%   | 7%    | 2%    | 2%    | 1%    | 1%    | 0%    | 0%    | 0%    |
| 23B   | Weekend  | 70%  | 95%  | 94%  | 82%  | 55%   | 33%   | 16%   | 5%    | 2%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    | 0%    |

**Table 8: Daily Fishing Conditions.**

| Date        | Day Type | China Creek        | Clutesi Marina | Clutesi Ramp       | Fisherman's Harbour |
|-------------|----------|--------------------|----------------|--------------------|---------------------|
| 29 Jul 2024 | Midweek  | choppy             |                |                    |                     |
| 30 Jul 2024 | Midweek  | frequent whitecaps |                |                    |                     |
| 31 Jul 2024 | Midweek  |                    |                | calm/rippled       |                     |
| 01 Aug 2024 | Midweek  | choppy             |                |                    |                     |
| 02 Aug 2024 | Midweek  | calm/rippled       |                | choppy             |                     |
| 03 Aug 2024 | Weekend  |                    |                | choppy             |                     |
| 04 Aug 2024 | Weekend  |                    |                |                    |                     |
| 05 Aug 2024 | Weekend  | large swells       |                | calm/rippled       |                     |
| 06 Aug 2024 | Midweek  |                    | calm/rippled   | choppy             |                     |
| 07 Aug 2024 | Midweek  | choppy             |                |                    |                     |
| 08 Aug 2024 | Midweek  |                    |                |                    |                     |
| 09 Aug 2024 | Midweek  | frequent whitecaps |                |                    | choppy              |
| 10 Aug 2024 | Weekend  | frequent whitecaps |                | choppy             |                     |
| 11 Aug 2024 | Weekend  |                    |                | frequent whitecaps |                     |
| 12 Aug 2024 | Midweek  | frequent whitecaps |                | frequent whitecaps |                     |
| 13 Aug 2024 | Midweek  |                    | choppy         | frequent whitecaps |                     |
| 14 Aug 2024 | Midweek  | choppy             |                | choppy             |                     |
| 15 Aug 2024 | Midweek  |                    |                |                    | frequent whitecaps  |
| 16 Aug 2024 | Midweek  | choppy             |                |                    |                     |
| 17 Aug 2024 | Weekend  |                    |                |                    |                     |
| 18 Aug 2024 | Weekend  |                    | large swells   | choppy             |                     |
| 19 Aug 2024 | Midweek  |                    |                |                    |                     |
| 20 Aug 2024 | Midweek  |                    |                | choppy             |                     |
| 21 Aug 2024 | Midweek  | choppy             |                |                    |                     |
| 22 Aug 2024 | Midweek  |                    |                | choppy             |                     |
| 23 Aug 2024 | Midweek  |                    | choppy         |                    |                     |
| 24 Aug 2024 | Weekend  |                    |                | frequent whitecaps |                     |
| 25 Aug 2024 | Weekend  | frequent whitecaps |                |                    |                     |
| 26 Aug 2024 | Midweek  |                    |                | choppy             |                     |
| 27 Aug 2024 | Midweek  |                    |                |                    | choppy              |
| 28 Aug 2024 | Midweek  |                    |                | choppy             |                     |
| 29 Aug 2024 | Midweek  |                    |                | calm/rippled       |                     |
| 30 Aug 2024 | Midweek  |                    |                |                    |                     |
| 31 Aug 2024 | Weekend  | frequent whitecaps |                |                    | calm/rippled        |
| 01 Sep 2024 | Weekend  | choppy             |                |                    |                     |
| 02 Sep 2024 | Weekend  | choppy             |                |                    | calm/rippled        |
| 03 Sep 2024 | Midweek  |                    |                | choppy             |                     |