

# FISHERIES AND OCEANS CANADA

## SOUTH COAST ASSESSMENT BULLETIN

### CREEL SURVEY DATA REVIEW PACKAGE

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## Area 24 July 2022



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*Prepared By:*  
South Coast Salmon Stock Assessment Section

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



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 | Fourth Street Dock |    | Method Marine<br>(Fuel Dock) |    | Tofino Resort and Marina |    |    |
|-------------|----------|--------------------|----|------------------------------|----|--------------------------|----|----|
|             |          | MD                 | PM | MD                           | PM | AM                       | MD | PM |
| 28 Jun 2022 | Midweek  |                    |    |                              |    |                          |    | 8  |
| 29 Jun 2022 | Midweek  |                    |    | 2                            |    |                          |    |    |
| 30 Jun 2022 | Midweek  |                    |    |                              |    |                          |    |    |
| 01 Jul 2022 | Weekend  |                    |    |                              |    |                          |    | 3  |
| 02 Jul 2022 | Weekend  |                    |    |                              |    |                          |    |    |
| 03 Jul 2022 | Weekend  |                    |    |                              |    |                          |    |    |
| 04 Jul 2022 | Midweek  |                    |    |                              |    |                          | 5  |    |
| 05 Jul 2022 | Midweek  |                    |    |                              |    |                          | 8  |    |
| 06 Jul 2022 | Midweek  |                    |    |                              |    |                          |    |    |
| 07 Jul 2022 | Midweek  |                    |    |                              | 2  |                          |    |    |
| 08 Jul 2022 | Midweek  |                    |    |                              |    |                          |    |    |
| 09 Jul 2022 | Weekend  |                    |    |                              |    |                          |    |    |
| 10 Jul 2022 | Weekend  |                    |    |                              |    |                          |    | 9  |
| 11 Jul 2022 | Midweek  |                    |    |                              |    |                          |    |    |
| 12 Jul 2022 | Midweek  | 3                  |    |                              |    |                          |    |    |
| 13 Jul 2022 | Midweek  |                    |    |                              |    | 6                        |    |    |
| 14 Jul 2022 | Midweek  |                    |    |                              |    |                          | 12 |    |
| 15 Jul 2022 | Midweek  |                    |    |                              |    |                          |    | 10 |
| 16 Jul 2022 | Weekend  |                    |    | 1                            |    |                          |    |    |
| 17 Jul 2022 | Weekend  |                    |    |                              |    |                          | 10 |    |
| 18 Jul 2022 | Midweek  |                    |    |                              |    |                          |    | 7  |
| 19 Jul 2022 | Midweek  |                    |    |                              |    |                          |    |    |
| 20 Jul 2022 | Midweek  |                    |    |                              |    |                          |    |    |
| 21 Jul 2022 | Midweek  | 2                  |    |                              |    |                          |    |    |
| 22 Jul 2022 | Midweek  |                    |    |                              |    |                          | 8  |    |
| 23 Jul 2022 | Weekend  |                    | 2  |                              |    |                          |    |    |
| 24 Jul 2022 | Weekend  |                    |    |                              |    | 6                        |    |    |
| 25 Jul 2022 | Midweek  |                    |    |                              |    |                          | 11 |    |
| 26 Jul 2022 | Midweek  |                    |    |                              |    |                          |    | 6  |
| 27 Jul 2022 | Midweek  |                    |    |                              |    |                          |    |    |
| 28 Jul 2022 | Midweek  |                    |    |                              |    | 2                        |    |    |
| 29 Jul 2022 | Midweek  |                    |    |                              |    |                          |    | 5  |
| 30 Jul 2022 | Weekend  |                    |    | 1                            |    |                          |    |    |
| 31 Jul 2022 | Weekend  |                    |    |                              |    |                          |    |    |
| 01 Aug 2022 | Weekend  |                    |    |                              |    |                          | 10 |    |
| 02 Aug 2022 | Midweek  |                    |    |                              |    |                          | 10 |    |
| 03 Aug 2022 | Midweek  |                    |    |                              |    |                          |    |    |

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-2022 | Tuesday             | frequent whitecaps         | 8                      | 4       | 6    |         |         | 10               | 1022        | 16               |
| 29-Jun-2022 | Wednesday           | choppy                     | 2                      | 1       | 1    |         |         |                  |             |                  |
| 30-Jun-2022 | Thursday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 01-Jul-2022 | Friday (Canada Day) | choppy                     | 3                      | 1       | 4    |         |         | 11               | 1104        | 14               |
| 02-Jul-2022 | Saturday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 03-Jul-2022 | Sunday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 04-Jul-2022 | Monday              | frequent whitecaps         | 5                      | 5       | 5    |         |         |                  |             |                  |
| 05-Jul-2022 | Tuesday             | calm/rippled               | 8                      | 7       | 8    |         |         |                  |             |                  |
| 06-Jul-2022 | Wednesday           |                            | 0                      |         |      |         |         | 15               | 1048        | 23               |
| 07-Jul-2022 | Thursday            | choppy                     | 2                      | 2       |      |         |         |                  |             |                  |
| 08-Jul-2022 | Friday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 09-Jul-2022 | Saturday            |                            | 0                      |         |      |         |         | 7                | 1042        | 10               |
| 10-Jul-2022 | Sunday              | frequent whitecaps         | 9                      | 13      | 24   |         |         |                  |             |                  |
| 11-Jul-2022 | Monday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 12-Jul-2022 | Tuesday             | large swells               | 3                      |         | 2    |         |         | 11               | 1159        | 18               |
| 13-Jul-2022 | Wednesday           | large swells               | 6                      |         | 7    |         |         |                  |             |                  |
| 14-Jul-2022 | Thursday            | choppy                     | 13                     | 6       | 47   |         |         |                  |             |                  |
| 15-Jul-2022 | Friday              | large swells               | 11                     |         | 31   |         |         |                  |             |                  |
| 16-Jul-2022 | Saturday            | frequent whitecaps         | 1                      | 1       | 1    |         |         |                  |             |                  |
| 17-Jul-2022 | Sunday              | choppy                     | 10                     | 1       | 11   |         |         | 12               | 1034        | 16               |
| 18-Jul-2022 | Monday              | frequent whitecaps         | 7                      | 1       | 28   |         |         | 6                | 1127        | 10               |
| 19-Jul-2022 | Tuesday             |                            | 0                      |         |      |         |         |                  |             |                  |
| 20-Jul-2022 | Wednesday           |                            | 0                      |         |      |         |         |                  |             |                  |
| 21-Jul-2022 | Thursday            | frequent whitecaps         | 2                      |         | 5    |         |         |                  |             |                  |
| 22-Jul-2022 | Friday              | choppy                     | 8                      | 5       | 34   |         |         |                  |             |                  |
| 23-Jul-2022 | Saturday            | choppy                     | 2                      |         |      |         |         |                  |             |                  |
| 24-Jul-2022 | Sunday              | choppy                     | 6                      | 2       | 18   |         |         |                  |             |                  |
| 25-Jul-2022 | Monday              | choppy                     | 11                     | 6       | 15   |         |         |                  |             |                  |
| 26-Jul-2022 | Tuesday             | choppy                     | 6                      | 8       | 22   |         |         | 5                | 1057        | 9                |
| 27-Jul-2022 | Wednesday           |                            | 0                      |         |      |         |         |                  |             |                  |
| 28-Jul-2022 | Thursday            | choppy                     | 2                      | 1       | 4    |         |         |                  |             |                  |
| 29-Jul-2022 | Friday              | choppy                     | 6                      | 1       | 33   |         |         |                  |             |                  |
| 30-Jul-2022 | Saturday            | choppy                     | 1                      | 1       | 2    |         |         |                  |             |                  |
| 31-Jul-2022 | Sunday              |                            | 0                      |         |      |         |         | 8                | 0925        | 11               |
| 01-Aug-2022 | Monday (B.C. Day)   | choppy                     | 10                     | 1       | 46   |         |         |                  |             |                  |
| 02-Aug-2022 | Tuesday             | frequent whitecaps         | 10                     | 1       | 38   |         |         |                  |             |                  |
| 03-Aug-2022 | Wednesday           |                            | 0                      |         |      |         |         |                  |             |                  |
|             | Totals              | frequent whitecaps         | 90                     | 42      | 241  |         |         | 9*               |             | 15*              |
|             | Totals              | choppy                     | 32                     | 19      | 60   |         |         | 10*              |             | 13*              |

\* 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  | 13                     | 11             | 143                    | 0.594   | 1.875 |         |         | 85       | 268  |         |         |
| Midweek  | 15                     | 20             | 300                    | 0.467   | 2.678 |         |         | 140      | 803  |         |         |

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

| Year     | Month | Total Effort | Chinook Kept | Coho Kept | Sockeye Kept | Halibut Kept |
|----------|-------|--------------|--------------|-----------|--------------|--------------|
| 2017     | July  | 271          | 381          | 120       |              | 24           |
| 2018     | July  | 1227         | 375          | 444       |              | 7            |
| 2019     | July  | 531          | 352          | 1242      |              | 45           |
| 2020     | July  | 153          | 133          | 26        |              | 7            |
| 2021     | July  | 169          | 186          | 109       |              | 0            |
| 2022     | July  | 448          | 198          | 1047      |              | 0            |
| 5-Yr Avg | July  | 470          | 285          | 388       |              | 17           |

**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    | 36                 | 3%              | 17%                   | 233               | 22%            | 3%                   | 6                     |
| Chinook | 48                 | 25%             | 44%                   | 248               | 22%            | 8%                   | 21                    |

**Table 6: Guided Proprtions Review.**

| Data Source      | Interviews / Angler Days | Guided Proportion |
|------------------|--------------------------|-------------------|
| Creel Interivews | 122                      | 77%               |
| iRec Anglers     | 3152                     | 34%               |

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

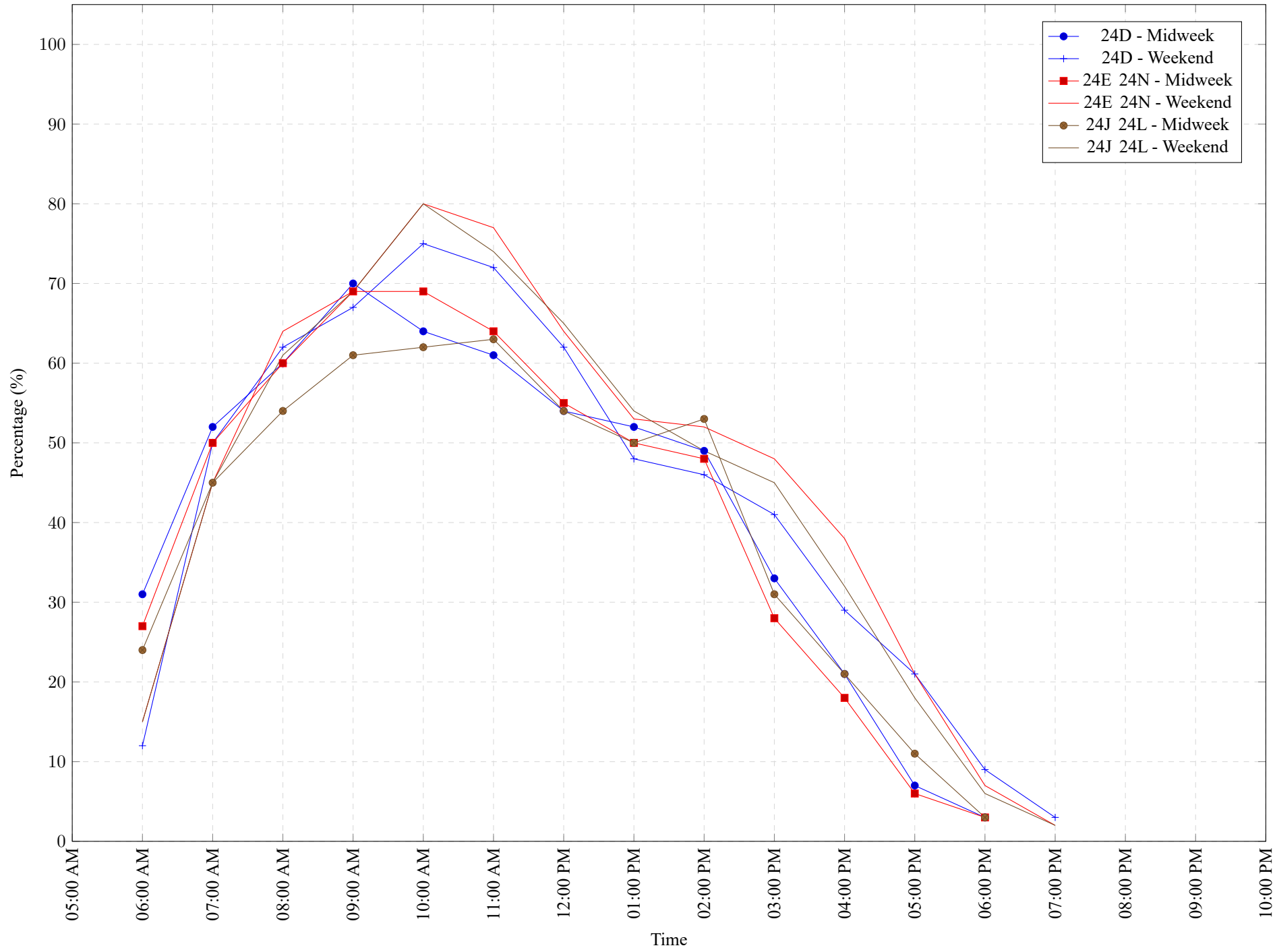


Table 7: Proportion of each day's fishing by hour.

| Areas   | Day Type | 6:00<br>AM | 7:00<br>AM | 8:00<br>AM | 9:00<br>AM | 10:00<br>AM | 11:00<br>AM | 12:00<br>PM | 01:00<br>PM | 02:00<br>PM | 03:00<br>PM | 04:00<br>PM | 05:00<br>PM | 06:00<br>PM | 07:00<br>PM | 08:00<br>PM | 09:00<br>PM | 10:00<br>PM |
|---------|----------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 24D     | Midweek  | 31%        | 52%        | 60%        | 70%        | 64%         | 61%         | 54%         | 52%         | 49%         | 33%         | 21%         | 7%          | 3%          | 0%          | 0%          | 0%          | 0%          |
| 24D     | Weekend  | 12%        | 50%        | 62%        | 67%        | 75%         | 72%         | 62%         | 48%         | 46%         | 41%         | 29%         | 21%         | 9%          | 3%          | 0%          | 0%          | 0%          |
| 24E 24N | Midweek  | 27%        | 50%        | 60%        | 69%        | 69%         | 64%         | 55%         | 50%         | 48%         | 28%         | 18%         | 6%          | 3%          | 0%          | 0%          | 0%          | 0%          |
| 24E 24N | Weekend  | 15%        | 45%        | 64%        | 69%        | 80%         | 77%         | 64%         | 53%         | 52%         | 48%         | 38%         | 21%         | 7%          | 2%          | 0%          | 0%          | 0%          |
| 24J 24L | Midweek  | 24%        | 45%        | 54%        | 61%        | 62%         | 63%         | 54%         | 50%         | 53%         | 31%         | 21%         | 11%         | 3%          | 0%          | 0%          | 0%          | 0%          |
| 24J 24L | Weekend  | 15%        | 45%        | 61%        | 69%        | 80%         | 74%         | 65%         | 54%         | 49%         | 45%         | 32%         | 18%         | 6%          | 2%          | 0%          | 0%          | 0%          |

**Table 8: Daily Fishing Conditions.**

| Date        | Day Type | Fourth Street Dock | Method Marine (Fuel Dock) | Tofino Resort and Marina |
|-------------|----------|--------------------|---------------------------|--------------------------|
| 28 Jun 2022 | Midweek  |                    |                           | frequent whitecaps       |
| 29 Jun 2022 | Midweek  |                    | choppy                    |                          |
| 30 Jun 2022 | Midweek  |                    |                           |                          |
| 01 Jul 2022 | Weekend  |                    |                           | choppy                   |
| 02 Jul 2022 | Weekend  |                    |                           |                          |
| 03 Jul 2022 | Weekend  |                    |                           |                          |
| 04 Jul 2022 | Midweek  |                    |                           | frequent whitecaps       |
| 05 Jul 2022 | Midweek  |                    |                           | calm/rippled             |
| 06 Jul 2022 | Midweek  |                    |                           |                          |
| 07 Jul 2022 | Midweek  |                    | choppy                    |                          |
| 08 Jul 2022 | Midweek  |                    |                           |                          |
| 09 Jul 2022 | Weekend  |                    |                           |                          |
| 10 Jul 2022 | Weekend  |                    |                           | frequent whitecaps       |
| 11 Jul 2022 | Midweek  |                    |                           |                          |
| 12 Jul 2022 | Midweek  | large swells       |                           |                          |
| 13 Jul 2022 | Midweek  |                    |                           | large swells             |
| 14 Jul 2022 | Midweek  |                    |                           | choppy                   |
| 15 Jul 2022 | Midweek  |                    |                           | large swells             |
| 16 Jul 2022 | Weekend  |                    | frequent whitecaps        |                          |
| 17 Jul 2022 | Weekend  |                    |                           | choppy                   |
| 18 Jul 2022 | Midweek  |                    |                           | frequent whitecaps       |
| 19 Jul 2022 | Midweek  |                    |                           |                          |
| 20 Jul 2022 | Midweek  |                    |                           |                          |
| 21 Jul 2022 | Midweek  | frequent whitecaps |                           |                          |
| 22 Jul 2022 | Midweek  |                    |                           | choppy                   |
| 23 Jul 2022 | Weekend  | choppy             |                           |                          |
| 24 Jul 2022 | Weekend  |                    |                           | choppy                   |
| 25 Jul 2022 | Midweek  |                    |                           | choppy                   |
| 26 Jul 2022 | Midweek  |                    |                           | choppy                   |
| 27 Jul 2022 | Midweek  |                    |                           |                          |
| 28 Jul 2022 | Midweek  |                    |                           | choppy                   |
| 29 Jul 2022 | Midweek  |                    |                           | choppy                   |
| 30 Jul 2022 | Weekend  |                    | choppy                    |                          |
| 31 Jul 2022 | Weekend  |                    |                           |                          |
| 01 Aug 2022 | Weekend  |                    |                           | choppy                   |
| 02 Aug 2022 | Midweek  |                    |                           | frequent whitecaps       |
| 03 Aug 2022 | Midweek  |                    |                           |                          |