

## Objectives

- Describe how data from the Set Information and Catch Composition form can be used
- Describe the preferred method for estimating total catch
- Explain 2 methods of catch sampling
- List 5 species that are a priority for lengths and describe the types of lengths needed
- Demonstrate ability to complete the Set Info & Catch Comp form



## When to complete the Set Information & Catch Comp form?

- 2 sections
- Set Information every set
  - Gear deployment & retrieval times
  - o Total catch
- Catch composition every set (few exceptions)
  - Spp #, weight, % retained, discard reason





|   |   | Tota<br>Esti  | l C<br>m   | atch  |
|---|---|---|--|---|
| Tally of Full<br>Tally of 7/8<br>Tally of 3/4<br>Tally of 2/3<br>Tally of 1/2<br>Tally of 1/2<br>Tally of 1/4<br>Tally of 1/8 | Tally<br>5<br>4<br>15<br>12<br>8<br>3<br>1<br>0 | * 1<br>* 0.875<br>* 0.75<br>* 0.667<br>* 0.5<br>* 0.333<br>* 0.25<br>* 0.125<br>Total bra | =<br>=<br>=<br>=<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>:<br>: | 5.00<br>3.50<br>11.25<br>8.00<br>4.00<br>1.00<br>0.25<br>0.00<br>33.00<br>800 kg/brailer<br>26,400 kg |
|   |   |   |  | ≈ 26.40 MT  |











|                                      | -                              | Set Information & Catch Composition - Purse Seine - Large Pelagics |                     |                       |             |   |   |   |                                    |                        |
|--------------------------------------|--------------------------------|--|---------------------|-----------------------|-------------|---|---|---|------------------------------------|------------------------|
| Observer code                        | 1                              | vessel co  | de                  | Trip ID               | •           | Set No.   | ſ   | loat.Object / Sig<br>/                              | phting No.                         | MM Sighting            |
|                                      |                                |  |                     |                       | Set Info    | rmation   |   |   |                                    |                        |
| 2 Feeding<br>3 Floating              | ciated<br>- baitfish<br>Object | I  | 4 Mar<br>5 Oth      | ine mammal<br>er:     |             | 1 Ves<br>2 Heli<br>3 Floa                                       | sel sighting<br>icopter sighti<br>ating object<br>Is/bird radar | ng (  | 5 Sonar/d<br>6 Other v<br>7 Other: | epth sounder<br>ressel |
| Set Sequen                           | e Time                         | s  |                     |                       |             |   |   |   |                                    | -                      |
| Start                                | set                            | Begin pu   | rsing (winch<br>on) | End pursing<br>up)    | (rings      | Begin brail   | End bra   | II End  | set (skiff on<br>board)            |                        |
|                                      |                                |  |                     |                       |             |   |   |   |                                    |                        |
|                                      | Brailer tally                  |  |                     |                       |             |   |   |   |                                    |                        |
| Brailer tally                        |                                |  |                     |                       |             |   |   |   |                                    | -                      |
| Brailer tally<br>Full                | 7/                             | 8ths   | 3/4th               | 2/3rd                 | Half        | 1/3rd   | 1/4th   | 1/8th   |                                    | TOTAL                  |
| Brailer tally<br>Full                | 7/                             | Bths   | 3/4th               | 2/3rd                 | Half        | 1/3rd   | 1/4th   | 1/8th   |                                    | TOTAL                  |
| Brailer tally<br>Full<br>Total Catch | 7/i                            | Bths   | 3/4th               | 2/3rd                 | Half        | 1/3rd   | 1/4th   | 1/8th   |                                    | TOTAL                  |
| Total Catch                          | (mt)<br>(atch                  | Bths   | 3/4th               | 2/3rd                 | Half<br>Pro | 1/3rd   | 1/4th   | 1/8th<br>apply)                                     |                                    | TOTAL                  |
| Total Catch                          | (mt)<br>atch                   | Bths   | 3/4th               | 2/3rd                 | Half<br>Pro | 1/3rd<br>blems (che   | 1/4th<br>eck all that a   | 1/8th<br>apply)<br>Unfavourable<br>SST              |                                    | TOTAL<br>sssed mark    |
| Total Catch                          | (mt)<br>Catch                  | Bths   | 3/4th<br>od Vess    | 2/3rd<br>sel Estimate | Half<br>Pro | 1/3rd<br>blems (che<br>) No proble<br>) Interactio<br>other ver | 1/4th   | 1/8th<br>apply)<br>Unfavourable<br>SST<br>Breakdown | Mis                                | TOTAL                  |

|  | Set Inform                    | ation & Catch               | Compos    | ition - Pu                              | rse Seine - l  | arge Pelagic                | S                       |
|--|-------------------------------|-----------------------------|-----------|---|--|-----------------------------|-------------------------|
| Observer code                            | Vessel code                   | Trip IC                     | )         | Set No.                                 | Float.OI   | ject / Sighting No.<br>/    | MM Sighting             |
| 7  |                               |                             | Set Infor | mation                                  |  |                             |                         |
| 1 Unassociat 2 Feeding - b 3 Floating Ob | ed Laitfish Laitfish Laitfish | 4 Marine mammal<br>5 Other: |           | 1 Vess<br>2 Helic<br>3 Float<br>4 Birds | el sighting<br>opter sighting<br>ing object<br>/bird radar | 6 Other<br>7 Other          | depth sounder<br>vessel |
| Set Sequence Start set                   | Fimes<br>Begin pursing<br>on) | (winch End pursing<br>up)   | (rings B  | egin brail                              | End brail  | End set (skiff on<br>board) |                         |
| Brailer tally                            |                               |                             |           |   |  |                             |                         |
| Full                                     | 7/8ths 3                      | /4th 2/3rd                  | Half      | 1/3rd                                   | 1/4th 1/8  |                             | TOTAL                   |
| Total Catch (mt                          | :)                            |                             | Prot      | olems (cheo                             | k all that apply)  |                             |                         |
| Total Cate<br>Estimate                   | Method                        | Vessel Estimate             |           | No problem<br>Interaction<br>other vess | ns Unfa<br>SST<br>w/ Brea                                  | kdown                       | sssed mark<br>her:      |

|  | Set Inf                   | ormation             | & Catch (            | Compos    | ition - Pu                             | rse Sei   | ne - Larg     | e Pelag                 | gics                                    |
|--|---------------------------|----------------------|----------------------|-----------|--|---|---------------|-------------------------|---|
| Observer code                              | Vessel c                  | ode                  | Trip ID              |           | Set No.                                |   | loat.Object / | Sighting No             | o. MM Sighting                          |
|  | 1                         |                      |                      | Set Infor | mation                                 |   |               |                         |   |
| 1 Unassocia<br>2 Feeding -<br>3 Floating C | ated<br>baitfish<br>bject | ☐ 4 Mari<br>☐ 5 Oth  | ine mammal<br>er:    |           | 1 Vess<br>2 Helio<br>3 Floa<br>4 Birds | sel sighting<br>copter sight<br>ting object<br>s/bird radar | ing           | 5 Sor<br>6 Oti<br>7 Oti | nar/depth sounder<br>her vessel<br>her: |
| Set Sequence<br>Start se                   | t Begin p                 | ursing (winch<br>on) | End pursing (<br>up) | rings B   | egin brail                             | End br  | ail En        | d set (skiff<br>board)  | on                                      |
| Brailer tally<br>Full                      | 7/8ths                    | 3/4th                | 2/3rd                | Half      | 1/3rd                                  | 1/4th   | 1/8th         |                         | TOTAL                                   |
|  |                           |                      |                      |           |  |   |               |                         |   |
| Total Catch (n                             | nt)                       |                      |                      | Prot      | plems (che                             | ck all that   | apply)        |                         |   |





| Sample Type (ST)<br>6A Whole Brail | 1               | Whole | baul                  | iposition   | Reason Discard       | 4      | Error             |  |
|------------------------------------|-----------------|-------|-----------------------|-------------|----------------------|--------|-------------------|--|
| 6B Partial Brail                   | 8               | Other |                       |             | 2 Market<br>3 Damage | 5      | Other             |  |
| Species Name                       | Species<br>Code | ST    | Number<br>Individuals | Weight (kg) | Sample Size          | % Ret. | Reason<br>Discard |  |
|                                    |                 |       |                       |             |                      |        |                   |  |
|                                    |                 |       |                       |             |                      |        |                   |  |
|                                    |                 |       |                       |             |                      |        |                   |  |
|                                    |                 |       |                       |             |                      |        |                   |  |
|                                    |                 |       |                       |             |                      |        |                   |  |
|                                    |                 |       |                       |             |                      |        |                   |  |
|                                    |                 |       |                       |             |                      |        |                   |  |
|                                    |                 |       |                       |             |                      |        |                   |  |
|                                    |                 |       |                       |             |                      |        |                   |  |
|                                    |                 |       |                       |             |                      |        |                   |  |
|                                    |                 |       |                       |             |                      |        |                   |  |
|                                    |                 |       |                       |             |                      |        |                   |  |

|  | h Co          | mpos                          | ition (fe   | orm)   |                            |
|--|---------------|-------------------------------|-------------|--|----------------------------|
| Sample Type (ST)<br>6A Whole Brail<br>6B Partial Brail | 1 WI<br>8 Ott | Catch Cor<br>nole haul<br>ner | nposition   | Reason Discar<br>1 Regulatio<br>2 Market<br>2 Demoso | rd<br>n 4 Error<br>5 Other |
| Species Name   | Species S     | T Number                      | Weight (kg) | Sample Size  | % Ret. Reason<br>Discard   |
|  |               |                               |             |  |                            |
|  |               |                               |             |  |                            |
|  |               |                               |             |  |                            |
|  |               |                               |             |  |                            |
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|  |               |                               |             |  |                            |
|  |               |                               |             |  |                            |
|  |               |                               |             |  |                            |



| Sample Tune (ST)                   |        |               | Catch Co | mposition | Reason Dise            | ard                   |
|------------------------------------|--------|---------------|----------|-----------|------------------------|-----------------------|
| 6A Whole Brail<br>6B Partial Brail | 1<br>7 | Whol<br>Other | e haul   |           | 1 Regulati<br>2 Market | on 4 Error<br>5 Other |
| Species Name                       | Code   | ST            | Number   | Weight    | Sample size            | % Ret. Discard        |
|                                    |        |               |          |           |                        |                       |
|                                    |        |               |          |           |                        |                       |
|                                    |        |               |          |           |                        |                       |
|                                    |        |               |          |           |                        |                       |
|                                    |        |               |          |           |                        |                       |
|                                    |        |               |          |           |                        |                       |
|                                    |        |               |          |           |                        |                       |
|                                    |        |               |          |           |                        |                       |
|                                    |        |               |          |           |                        |                       |
|                                    |        |               |          |           |                        |                       |

| 1<br>7<br>Code | Whole<br>Other<br>ST | e haul<br>Number | Weight | Reason Di<br>1 Regu<br>2 Mark<br>3 Dam<br>Sample siz | scard<br>lation 4 Error<br>et 5 Other<br>age<br>20 % Ret. Reas<br>Disca |
|----------------|----------------------|------------------|--------|--|---|
| Code           | ST                   | Number           | Weight | Sample siz   | ze % Ret. Reas<br>Disca   |
|                |                      |                  |        |  |   |
|                |                      |                  |        | -  |   |
|                |                      |                  |        |  |   |
|                |                      |                  |        |  |   |
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|                |                      |                  |        |  |   |
|                |                      |                  |        | _  |   |
|                |                      |                  |        |  |   |

| How many?       | Common Name           | Scientific Name        |
|-----------------|-----------------------|------------------------|
| nas             |                       |                        |
| All             | Atlantic bluefin tuna | Thunnus thynnus        |
| Subsample 20-50 | Bigeye tuna           | Thunnus obesus         |
| Subsample 20-50 | Albacore tuna         | Thunnus alalunga       |
| Subsample 20-50 | Yellowfin tuna        | Thunnus albacores      |
| Âll             | Little tunny          | Euthynnus alletteratus |
| All             | Skipjack tuna         | Katsuwonus pelamis     |
| All             | Frigate tuna          | Auxis thazard          |
| All             | Bullet tuna           | Auxis rochi            |

| Le                 | ngths                       | ]                          |
|--------------------|-----------------------------|----------------------------|
| How many?          | Common Name                 | Scientific Name            |
| Billfish           |                             |                            |
| All                | Swordfish                   | Xiphias gladius            |
| All                | Atlantic sailfish           | Istiophorus albicans       |
| All                | Atlantic blue marlin        | Makaira nigricans          |
| All                | Black marlin                | Makaira indica             |
| All                | Atlantic white marlin       | Tetrapturus albidus        |
| All                | Shortbill spearfish         | Tetrapturus angustirostris |
| Other Finfish      | 1                           |                            |
| All                | Atlantic bonito             | Sarda sarda                |
| All                | If catch <15 of any finfish |                            |
| Subsample<br>15-20 | If catch >15 of any finfish |                            |







**Sampling Description** Briefly describe the flow of fish:

Catch was brailed onto the vessel using a 1000 kg brailer. The brailer was emptied directly into the fish hold



## Summary

- How can data from the Set Information & Catch Composition form can be used?
- Describe the preferred method for estimating total catch
- Explain 2 methods of catch sampling
- List 5 species that are a priority for lengths. What types of lengths are needed for each?