

ANNUAL CATCH ESTIMATES GUIDELINES

Steps to calculate your Annual Catch Estimates for industrial fisheries

PURSE SEINE

STEP 1. Do you have an industrial purse seine tuna fleet fishing in the WCPFC Area ?

- Yes: Go to **STEP 2**.
- No: Go to [Longline part](#)

STEP 2. PURSE SEINE NATIONAL FLEET VESSEL LIST

Produce a list of all purse seine vessels in your tuna fleet that were active during 2017. This should include any CHARTERED vessels and also include the GRT (Gross Registered Tonnage).

- Check your vessel list against relevant DORADO reports (<https://www.spc.int/ofp/dorado>)
 - ⇒ **Run DORADO - TUFMAN - RECON - report #2.1.5** “NATIONAL FLEET - Purse Seine distinct vessels in WCPFC Area”
 - ⇒ Make sure all vessels in your fleet(s) appear in these reports
 - ⇒ Check on potential other vessels that should not be in your fleet(s)
 - ⇒ Email us (emmanuel@spc.int) / Send a slack message (Manu_SPC) if some fixing has to be done on your vessel list under TUFMAN2
- This validated vessel list will then lead you to produce a breakdown of the number of purse seine vessels by SIZE class, to be copied into your ANNUAL CATCH ESTIMATES template.
 - ⇒ **Run DORADO – TUFMAN - Regional reporting – report #3b** “PURSE SEINE – Number of vessels by gear type and size (fleet structure)”

TRIP LIST CHECKS

- The objective here is to ensure ALL logsheets have been provided and that this should be achieved before you complete and submit your PART 1 report at the end of June. Use the following reports to check on missing logsheets:
 - ⇒ **DORADO - TUFMAN - RECON report #2.1.1** “NATIONAL FLEET – Missing Purse Seine logsheet in WCPFC Area”

If you have VMS data available in TUFMAN 2 (i.e. FFA member country), go to **STEP 3**.

If you do not have VMS data available in TUFMAN 2 (i.e. non-FFA member country), then you will need to determine the actual number of trips conducted and this can then be used in place of the VMS Trips in the STEPs 3 through 6.

STEP 3. TEMPLATE (LOGSHEET DATA)

If you do not use the TUFMAN 2 system to enter and store your data, go to **STEP 9**.

- If you have a national PURSE SEINE fleet

⇒ **run the DORADO - TUFMAN - RECON report #2.1.3** “[NATIONAL FLEET - Purse seine - Key species catches in WCPFC Area raised with VMS](#)”

The following procedure is shown in video “[ACE Tutorial - Copy DORADO output back into ACE Excel template](#)”, available from <http://bit.ly/ACE-TUTO>. You can plug the conference room headset to your laptop to hear the sound

- Export the output as CSV file ( (CSV)) from DORADO
- Open CSV in Excel and sort first 2 column, if not in the same order than in the template (Excel->Data-Sort)
- Use the XLS TEMPLATE provided for each fleet, and transfer the information (values) from the CSV report into the respective areas of the TEMPLATE. To do so, only copy ‘values’ to keep the XLS template formatting.

STEP 4. TEMPLATE (OBSERVER DATA)

The logsheet-reported estimates of the key species and the discards are acknowledged to be under-reported, so you will need to compare the key shark species and discard estimates produced from STEP 3 with estimates determined from observer data, if the observer data coverage is adequate.

⇒ Run **DORADO - TUBS - PURSE SEINE Menu – Report #31** “[PURSE SEINE -- LONGLINE -- WCPFC key species catch and discard/release used to produce estimate for Part 1 Report](#)”.

Data to be copied in XLS template, **section 2. OBSERVER DATA**

- Export the output as CSV file ( (CSV)) from DORADO
- Use the XLS TEMPLATE provided for each fleet, and transfer the information from the CSV report into the respective areas of the TEMPLATE. To do so, only copy the ‘values’ to keep the XLS template formatting.

STEP 5. TEMPLATE (SUMMARIES)

⇒ **Run DORADO – TUBS - ADMIN Menu – Report #51** “[COVERAGE: Purse Seine Observer Coverage](#)”

The output from this report will be required to raise the data extracted from above point.

Data to be copied/pasted directly from DORADO into XLS template, **section 3. SUMMARIES**

STEP 6. CATCH ESTIMATES – choosing the right METHOD

As a rule of thumb, use the following guidelines according to the methods listed in the XLS templates:

- a. **Method #3** is normally the best for the retained catches of target tuna species in the longline fishery [ALB, BET and YFT]

- b. **Method #4** is normally the best for the retained catches of target tuna species in the purse seine fishery [SKJ, YFT and BET]
- c. **Method #2** is normally the best for the retained catch of other species and the discards of all species for both fisheries.

For purse seine, only consider method 1 or 2 for retained target species when observer coverage is greater than 70%. If not, then use **method 3 or 4**, and review with SPC.

Once you have determined the best estimates to use, then review with SPC before transferring the information into your ANNUAL CATCH ESTIMATES Ms Word template.

LONGLINE

STEP 1. Do you have a LONGLINE industrial tuna fleet fishing in the WCPFC Area ?

- Yes Go to **STEP 2**.
- No **Your work is done!**

STEP 2. LONGLINE NATIONAL FLEET VESSEL LIST

Produce a list of all longline vessels in your tuna fleet that were active during 2017. This should include any CHARTERED vessels and also include the GRT (Gross Registered Tonnage).

- Check your vessel list against relevant DORADO reports (<https://www.spc.int/ofp/dorado>)
 - ⇒ **Run DORADO – TUFMAN - RECON report #2.2.5** “NATIONAL FLEET - Longline distinct vessels in WCPFC Area”
 - ⇒ Make sure all vessels in your fleet(s) appear in these reports
 - ⇒ Check on potential other vessels that should not be in your fleet(s)
 - ⇒ Email us (emmanuel@spc.int) / Send a slack message (Manu_SPC) if some fixing has to be done on your vessel list under TUFMAN2
- This validated vessel list will then lead you to produce a breakdown of the number of longline vessels by SIZE class, and to enter this into your ANNUAL CATCH ESTIMATES template:
 - ⇒ **Run DORADO – TUFMAN - Regional reporting – report #3a** “LONGLINE – Number of vessels by gear type and size (fleet structure)”

TRIP LIST CHECKS

- The objective here is to ensure ALL logsheets have been provided and that this should be achieved before you complete and submit your PART 1 report at the end of June. Use the following reports to check on missing logsheets
 - ⇒ **Run DORADO – TUFMAN - RECON report #2.2.1** “NATIONAL FLEET – Missing Longline logsheet in WCPFC Area”

If you have VMS data available in TUFMAN 2 (i.e. FFA member country), go to **STEP 3**.

If you do not have VMS data available in TUFMAN 2 (i.e. non-FFA member country), then you will need to determine the actual number of trips conducted and this can then be used in place of the VMS Trips in the STEPs 3 through 6.

STEP 3. TEMPLATE (LOGSHEET DATA)

If you do not use the TUFMAN 2 system to enter and store your data, go to **STEP 9**.

- If you have a national LONGLINE fleet
 - ⇒ **run DORADO - TUFMAN - RECON report #2.2.3** “[NATIONAL FLEET - Longline - Key species catches in WCPFC Area raised with VMS](#)”

The following procedure is shown in video “*ACE Tutorial - Copy DORADO output back into ACE Excel template*”, available from <http://bit.ly/ACE-TUTO>. You can plug the conference room headset to your laptop to hear the sound

- Export the output as CSV file ( (CSV)) from DORADO
- Open CSV in Excel and sort first 2 column, if not in the same order than in the template (Excel->Data-Sort)
- Use the XLS TEMPLATE provided for each fleet, and transfer the information (values) from the CSV report into the respective areas of the TEMPLATE. To do so, only copy ‘values’ to keep the XLS template formatting.

STEP 4. TEMPLATE (OBSERVER DATA)

The logsheet-reported estimates of the key species and the discards are acknowledged to be under-reported, so you will need to compare the key shark species and discard estimates produced from STEP 3 with estimates determined from observer data, if the observer data coverage is adequate.

- ⇒ **run DORADO – TUBS – LONGLINE – Report #31** “[LONGLINE -- WCPFC key species catch and discard/release used to produce estimate for Part 1 Report](#)”.

Data to be copied in XLS template, **section 2. OBSERVER DATA**

- Export the output as CSV file ( (CSV)) from DORADO
- Use the XLS TEMPLATE provided for each fleet, and transfer the information from the CSV report into the respective areas of the TEMPLATE. To do so, only copy the ‘values’ to keep the XLS template formatting.

STEP 5. TEMPLATE (SUMMARIES)

- ⇒ **Run DORADO – TUBS – ADMIN – Report #50** “[COVERAGE: Longline Observer Coverage](#)”
The output from this report will be required to raise the data extracted from above point.
Data to be copied/pasted directly from DORADO into XLS template, **section 3. SUMMARIES**

STEP 6. CATCH ESTIMATES – choosing the right METHOD

As a rule of thumb, use the following guidelines according to the methods listed in the XLS templates:

- a. **Method #3** is normally the best for the retained catches of target tuna species in the longline fishery [ALB, BET and YFT]
- b. **Method #4** is normally the best for the retained catches of target tuna species in the purse seine fishery [SKJ, YFT and BET]
- c. **Method #2** is normally the best for the retained catch of other species and the discards of all species for both fisheries.

Once you have determined the best estimates to use, then review with SPC before transferring the information into your ANNUAL CATCH ESTIMATES Ms Word template.

COMPLETING YOUR ESTIMATES

STEP 7. Do any of your national **LOGLINE** fleets fish in the following areas?

- (i) the Pacific Ocean beyond the WCPFC Area
 - (ii) the Pacific Ocean to the east of 150°W
 - (iii) Both north and south of the equator in the WCPFC Area
- Yes Go to **STEP 8**.
 - No **Your work is done!**

STEP 8. To produce the reports from other broad ocean areas, run the following **DORADO** reports

- ⇒ **Run DORADO - TUFMAN Reports - LOGLINE – Report #41** “LOGLINE catches by species in the NORTH / SOUTH Pacific OCEAN”
- ⇒ **Run DORADO - TUFMAN Reports - LOGLINE – Report #42** “LOGLINE catches by species in the WCPO Area”
- ⇒ **Run DORADO - TUFMAN Reports - LOGLINE – Report #43** “LOGLINE catches by species in the NORTH / SOUTH WCPFC Area”

The outputs from these reports can be reviewed with SPC before transferring the information into your ANNUAL CATCH ESTIMATES template.

Your work is done!

STEP 9. Please see the SPC representative to work through your estimates.