

## Meeting #3 November 4-5th 2026

| Bycatch Reduction Device/<br>Recommendation                                                                                                                                                                                                                                                                                                                                                        | Focal Species                                                                | Notes/Explanation                                                                                                                                                                                                                                                                | Predicted Financial Burden to Agency (\$-\$\$\$) | Predicted Financial Burden to Fishermen (\$-\$\$\$) | Expected Benefits                                                                                                                                                                                   | Expected Drawbacks                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Electronic Monitoring: Gunwale and Underwater trawl cameras</b><br><a href="https://bycatchsolutions.org/electronic-monitoring-of-smalltooth-sawfish-bycatch/">https://bycatchsolutions.org/electronic-monitoring-of-smalltooth-sawfish-bycatch/</a><br><b>Project Contact: Megan Westmeyer</b><br><a href="mailto:megan.westmeyer@sustainablefish.org">megan.westmeyer@sustainablefish.org</a> | GMR and SS                                                                   | Bycatch Solutions Hub, with LGL, Publix, Saltwater Inc., and Cox Seafood have started a study to test vessel mounted gunwale cameras and underwater trawl cameras to supplement bycatch information. 8 vessels will be participating in this 2-yr study. Research is SS foscued. | \$\$                                             | \$\$\$                                              | These cameras could provide valuable information about the bycatch of mainly SS but could also gather information about GMR. Compared to the deck camera, gunwale cameras may provide more privacy. | Fishermen would need to purchase, install and maintain camera system. Even though the cameras are aimed at the gunwale there may still be privacy concerns with this technology |
| <b>What detail is Needed</b>                                                                                                                                                                                                                                                                                                                                                                       | Would this technology be something shrimp fishermen would be willing to use? |                                                                                                                                                                                                                                                                                  |                                                  |                                                     |                                                                                                                                                                                                     |                                                                                                                                                                                 |
| <b>To Completed this</b>                                                                                                                                                                                                                                                                                                                                                                           | Are there any concerns with this technology?                                 |                                                                                                                                                                                                                                                                                  |                                                  |                                                     |                                                                                                                                                                                                     |                                                                                                                                                                                 |
| <b>Workgroup Member Feedback</b>                                                                                                                                                                                                                                                                                                                                                                   |                                                                              |                                                                                                                                                                                                                                                                                  |                                                  |                                                     |                                                                                                                                                                                                     |                                                                                                                                                                                 |
| To be completed at the meeting                                                                                                                                                                                                                                                                                                                                                                     |                                                                              |                                                                                                                                                                                                                                                                                  |                                                  |                                                     |                                                                                                                                                                                                     |                                                                                                                                                                                 |

| Bycatch Reduction Device/ Recommendation                | Focal Species                                                                                                                         | Notes/Explanation                                                                                 | Predicted Financial Burden to Agency (\$-\$\$\$) | Predicted Financial Burden to Fishermen (\$-\$\$\$) | Expected Benefits                                                                              | Expected Drawbacks                                                                                                                                                                                     |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regional or Temporal/Spatial Closure                    | GMR and SS                                                                                                                            | Species identification experts identified an area where GMR are know to be during MM of the year. | \$\$                                             | \$\$\$                                              | removing nets in an area known to be a GMR/SS hotspot would be expected to reduce interactions | Closures to important fishing grounds could be very detrimental to the shrimp industry which is already facing imports uncutting the current market, high operating costs, and a graying of the fleet. |
| What detail is Needed To Completed this Recommendation? | When considering a regional/temporal closure - what <b>specific areas</b> (including Lat/Long/depth) would be the most beneficial for |                                                                                                   |                                                  |                                                     |                                                                                                |                                                                                                                                                                                                        |
|                                                         | When considering a regional/temporal closure - what <b>specific areas</b> (including Lat/Long/depth) would be least harmful to the    |                                                                                                   |                                                  |                                                     |                                                                                                |                                                                                                                                                                                                        |
|                                                         | Would a regional closure be most effective for the species and least harmful for the fishermen if it was implemented year round or    |                                                                                                   |                                                  |                                                     |                                                                                                |                                                                                                                                                                                                        |
|                                                         | If the answer to the previous question was only certain months, <b>what months</b> would be most beneficial for the <b>SPECIES</b>    |                                                                                                   |                                                  |                                                     |                                                                                                |                                                                                                                                                                                                        |
|                                                         | If the answer to the previous question was only certain months, <b>what months</b> would be most least harmful to the <b>SHRIMP</b>   |                                                                                                   |                                                  |                                                     |                                                                                                |                                                                                                                                                                                                        |
| Workgroup Member Feedback                               |                                                                                                                                       |                                                                                                   |                                                  |                                                     |                                                                                                |                                                                                                                                                                                                        |
| To be completed at the meeting                          |                                                                                                                                       |                                                                                                   |                                                  |                                                     |                                                                                                |                                                                                                                                                                                                        |

| Bycatch Reduction Device/<br>Recommendation                      | Focal Species                                                       | Notes/Explanation                                        | Predicted Financial Burden to Agency (\$-\$\$\$) | Predicted Financial Burden to Fishermen (\$-\$\$\$) | Expected Benefits                                                                                   | Expected Drawbacks |
|------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------|
| Modify the NOAA official Safe Handling Guidelines for GMR and SS | Giant Manta Ray and Smalltooth Sawfish                              | Update the Safe Handling Guidelines to be more practical | \$                                               | \$                                                  | Guidelines may be consulted more if they are more applicable for conditions fishermen are observing | none               |
| What detail is Needed To Completed this                          | What, <b>specifically</b> needs to be modified for each guide?      |                                                          |                                                  |                                                     |                                                                                                     |                    |
|                                                                  | Should the <b>distribution</b> of these guides be changed/increased |                                                          |                                                  |                                                     |                                                                                                     |                    |
| Workgroup Member Feedback                                        |                                                                     |                                                          |                                                  |                                                     |                                                                                                     |                    |
| To be completed at the meeting                                   |                                                                     |                                                          |                                                  |                                                     |                                                                                                     |                    |
|                                                                  |                                                                     |                                                          |                                                  |                                                     |                                                                                                     |                    |
| Bycatch Reduction Device/<br>Recommendation                      | Focal Species                                                       | Notes/Explanation                                        | Predicted Financial Burden to Agency (\$-\$\$\$) | Predicted Financial Burden to Fishermen (\$-\$\$\$) | Expected Benefits                                                                                   | Expected Drawbacks |



|                                                         |                                                                            |                            |                                                  |                                                     |                                                                                                     |                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------|----------------------------------------------------------------------------|----------------------------|--------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Small Bar Spacing TEDs (SBS-TEDs)                       | SS                                                                         | TED bar spacing is reduced | \$\$                                             | \$\$\$                                              | the narrower TED bar spacing decreased large bycatch in the northern prawn fishery when researched. | During research on SBS-TEDs there was an increase in the prawn loss, so testing would need to be completed to ensure shrimp loss was not a factor for the South Atlantic shrimp fishery. Modifying or replacing the TED would be an increased cost to the fishermen. |
| What detail is Needed To Completed this Recommendation? | How realistic would it be to integrate this technology into existing nets? |                            |                                                  |                                                     |                                                                                                     |                                                                                                                                                                                                                                                                      |
|                                                         | How would this technology be tested within the South Atlantic?             |                            |                                                  |                                                     |                                                                                                     |                                                                                                                                                                                                                                                                      |
|                                                         | How long/how much money would be needed to test this gear?                 |                            |                                                  |                                                     |                                                                                                     |                                                                                                                                                                                                                                                                      |
|                                                         | How long would the process be until implementation?                        |                            |                                                  |                                                     |                                                                                                     |                                                                                                                                                                                                                                                                      |
|                                                         | What outreach would be needed before/during implementation?                |                            |                                                  |                                                     |                                                                                                     |                                                                                                                                                                                                                                                                      |
| Workgroup Member Feedback                               |                                                                            |                            |                                                  |                                                     |                                                                                                     |                                                                                                                                                                                                                                                                      |
| To be completed at the meeting                          |                                                                            |                            |                                                  |                                                     |                                                                                                     |                                                                                                                                                                                                                                                                      |
| Bycatch Reduction Device/ Recommendation                | Focal Species                                                              | Notes/Explanation          | Predicted Financial Burden to Agency (\$-\$\$\$) | Predicted Financial Burden to Fishermen (\$-\$\$\$) | Expected Benefits                                                                                   | Expected Drawbacks                                                                                                                                                                                                                                                   |

|                                                                                                          |                                                                             |                                                                                                    |                                                         |                                                            |                                                                               |                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FloMo Tarp Material in the Throat and Extension Sections of the TED</b><br>(https://www.flomo.co.nz/) | SS                                                                          | Instead of mesh in the throat and extension sections of the TED, FloMo compsite materials is used. | \$\$                                                    | \$\$\$                                                     | The composite mesh may lessen rostrum entanglement more than traditional mesh | While research on this technology shows promise, more refinements to the material is needed to improve handling and hydrodynamic performance. Adding this material to nets would be an increased cost to the fishermen. |
| <b>What detail is Needed To Completed this Recommendation?</b>                                           | How realistic would it be to intregrate this technology into existing nets? |                                                                                                    |                                                         |                                                            |                                                                               |                                                                                                                                                                                                                         |
|                                                                                                          | How would this technology be tested within the South Atlantic?              |                                                                                                    |                                                         |                                                            |                                                                               |                                                                                                                                                                                                                         |
|                                                                                                          | How long/how much money would be needed to test this gear?                  |                                                                                                    |                                                         |                                                            |                                                                               |                                                                                                                                                                                                                         |
|                                                                                                          | How long would the process be until implementation?                         |                                                                                                    |                                                         |                                                            |                                                                               |                                                                                                                                                                                                                         |
|                                                                                                          | What outreach would be needed before/during implementation?                 |                                                                                                    |                                                         |                                                            |                                                                               |                                                                                                                                                                                                                         |
| <b>Workgroup Member Feedback</b>                                                                         |                                                                             |                                                                                                    |                                                         |                                                            |                                                                               |                                                                                                                                                                                                                         |
| To be completed at the meeting                                                                           |                                                                             |                                                                                                    |                                                         |                                                            |                                                                               |                                                                                                                                                                                                                         |
|                                                                                                          |                                                                             |                                                                                                    |                                                         |                                                            |                                                                               |                                                                                                                                                                                                                         |
| <b>Bycatch Reduction Device/<br/>Recommendation</b>                                                      | <b>Focal Species</b>                                                        | <b>Notes/Explanation</b>                                                                           | <b>Predicted Financial Burden to Agency (\$-\$\$\$)</b> | <b>Predicted Financial Burden to Fishermen (\$-\$\$\$)</b> | <b>Expected Benefits</b>                                                      | <b>Expected Drawbacks</b>                                                                                                                                                                                               |

|                                                         |                                                                     |                                                                                                            |                                                  |                                                     |                                                                                                                              |                                                                                     |
|---------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Net Cutter Tool                                         | SS and GMR                                                          | Requiring vessels carry a cutter tool on an extension (like a pole) to cut GMR or SS out of the net easier | \$                                               | \$                                                  | This may make it easier and safer for both crew and the animal. The animal may not need to be brought on-board to be removed | This is a relatively inexpensive tool that may be able to be made by the fishermen. |
| What detail is Needed To Completed this Recommendation? | Is this tool something you think fishermen would be willing to use? |                                                                                                            |                                                  |                                                     |                                                                                                                              |                                                                                     |
|                                                         | Would this help crew more safely release SS or GMR?                 |                                                                                                            |                                                  |                                                     |                                                                                                                              |                                                                                     |
|                                                         |                                                                     |                                                                                                            |                                                  |                                                     |                                                                                                                              |                                                                                     |
|                                                         |                                                                     |                                                                                                            |                                                  |                                                     |                                                                                                                              |                                                                                     |
| Workgroup Member Feedback                               |                                                                     |                                                                                                            |                                                  |                                                     |                                                                                                                              |                                                                                     |
| To be completed at the meeting                          |                                                                     |                                                                                                            |                                                  |                                                     |                                                                                                                              |                                                                                     |
| Bycatch Reduction Device/ Recommendation                | Focal Species                                                       | Notes/Explanation                                                                                          | Predicted Financial Burden to Agency (\$-\$\$\$) | Predicted Financial Burden to Fishermen (\$-\$\$\$) | Expected Benefits                                                                                                            | Expected Drawbacks                                                                  |

|                                                                        |                                                                            |                                                                                                                                                      |                                                                          |                                                                            |                                                   |                                                                                                                                                                                                                |
|------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hummer Line<br/>Deterrent between the<br/>Trawl Doors</b>           | SS and GMR                                                                 | The hummer line is attached at the mouth of the net between the doors with the purpose of deterring larger animals and finfish from entering the net | \$\$                                                                     | \$\$                                                                       | Deterring SS and GMR from entering the net at all | A hummer line may be less expensive than mesh or TED replacement but is still an added expense for fishermen. The technology would need to be researched specifically for SS and GMR within the South Atlantic |
| <b>What detail is Needed<br/>To Completed this<br/>Recommendation?</b> | How realistic would it be to integrate this technology into existing nets? |                                                                                                                                                      |                                                                          |                                                                            |                                                   |                                                                                                                                                                                                                |
|                                                                        | How would this technology be tested within the South Atlantic?             |                                                                                                                                                      |                                                                          |                                                                            |                                                   |                                                                                                                                                                                                                |
|                                                                        | How long/how much money would be needed to test this gear?                 |                                                                                                                                                      |                                                                          |                                                                            |                                                   |                                                                                                                                                                                                                |
|                                                                        | How long would the process be until implementation?                        |                                                                                                                                                      |                                                                          |                                                                            |                                                   |                                                                                                                                                                                                                |
|                                                                        | What outreach would be needed before/during implementation?                |                                                                                                                                                      |                                                                          |                                                                            |                                                   |                                                                                                                                                                                                                |
| <b>Workgroup Member Feedback</b>                                       |                                                                            |                                                                                                                                                      |                                                                          |                                                                            |                                                   |                                                                                                                                                                                                                |
| To be completed at the meeting                                         |                                                                            |                                                                                                                                                      |                                                                          |                                                                            |                                                   |                                                                                                                                                                                                                |
| <b>Bycatch Reduction<br/>Device/<br/>Recommendation</b>                | <b>Focal<br/>Species</b>                                                   | <b>Notes/Explanation</b>                                                                                                                             | <b>Predicted<br/>Financial<br/>Burden to<br/>Agency (\$-<br/>\$\$\$)</b> | <b>Predicted<br/>Financial<br/>Burden to<br/>Fishermen<br/>(\$-\$\$\$)</b> | <b>Expected Benefits</b>                          | <b>Expected Drawbacks</b>                                                                                                                                                                                      |

|                                                         |                                                                             |                                                                                         |                                                  |                                                     |                                                                                                           |                                                      |
|---------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Wider TED with Wider Cut                                | SS and GMR                                                                  | GMR and larger SS sized TEDs                                                            | \$\$                                             | \$\$\$                                              | A wider TED may allow GMR and larger SS to pass through easier than the TED designed strickly for turtles | replacing the TED is an added expense for fishermen. |
| What detail is Needed To Completed this Recommendation? | How realistic would it be to intregrate this technology into existing nets? |                                                                                         |                                                  |                                                     |                                                                                                           |                                                      |
|                                                         | How would this technology be tested within the South Atlantic?              |                                                                                         |                                                  |                                                     |                                                                                                           |                                                      |
|                                                         | How long/how much money would be needed to test this gear?                  |                                                                                         |                                                  |                                                     |                                                                                                           |                                                      |
|                                                         | How long would the process be until implementation?                         |                                                                                         |                                                  |                                                     |                                                                                                           |                                                      |
|                                                         | What outreach would be needed before/during implementation?                 |                                                                                         |                                                  |                                                     |                                                                                                           |                                                      |
| Workgroup Member Feedback                               |                                                                             |                                                                                         |                                                  |                                                     |                                                                                                           |                                                      |
| To be completed at the meeting                          |                                                                             |                                                                                         |                                                  |                                                     |                                                                                                           |                                                      |
|                                                         |                                                                             |                                                                                         |                                                  |                                                     |                                                                                                           |                                                      |
| Bycatch Reduction Device/ Recommendation                | Focal Species                                                               | Notes/Explanation                                                                       | Predicted Financial Burden to Agency (\$-\$\$\$) | Predicted Financial Burden to Fishermen (\$-\$\$\$) | Expected Benefits                                                                                         | Expected Drawbacks                                   |
| Changes to Observer Program                             | SS and GMR                                                                  | Increased observer coverage within the South Atlantic penaeid and rock shrimp fisheries | \$\$\$                                           | \$                                                  | A wider TED may allow GMR and larger SS to pass through easier than the TED designed strickly for turtles | replacing the TED is an added expense for fishermen. |
| What detail is Needed                                   | Is it feasible to increase observer coverage?                               |                                                                                         |                                                  |                                                     |                                                                                                           |                                                      |

|                                                                |                                                                                                       |  |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|
| <b>What detail is needed to Completed this Recommendation?</b> | What specific funds/resources would be needed to increase coverage?                                   |  |
|                                                                | Increasing coverage would only be effective if compliance was high - how can compliance be increased? |  |
|                                                                |                                                                                                       |  |
| <b>Workgroup Member Feedback</b>                               |                                                                                                       |  |
| To be completed at the meeting                                 |                                                                                                       |  |

















































































