**Appendix 2: Gear list**

Advisory Notes:

* All rods/reels/leaders/lures etc should be provided ONLY by the vessel/skipper.
* The harness/fighting gloves may be provided by the angler at skippers discretion.
* Use of chumming oils is not recommended as this can increase shark bycatch, chunking is permitted
* The prohibition of double hook rigs and treble hooks under any circumstances
* The prohibition of traditional gaffs under any circumstances for either restraint or as a tail lift during measuring.

| **Type** | **Item** | **Recommended spec** | **Number required on each vessel** | **Requirement (essential/ desirable)** | **Advisory/ Additional info** | **Impacts or benefits to fish welfare /safety** | **Gears** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Angling Equipment | Rod holders | Vertical/15o holders with bent butt rods.  30o holders for straight butts.  Securely mounted with backing plates.  Swivel holders recommended | Min of 3 | Holders essential  Swivel holders highly recommended, and **essential** if fighting fish from the rod holder | Drop-in units you can install into fixed rod holders available as a cheap alternative. |  | All |
| Rods | Min of 30lb of pressure to achieve optimal loading (Tip 90deg to butt) | Min of three | **Essential** | Advertised ‘class’ of rod has no international standard. But, typically the minimum advertised class permitted would be a ‘50/80’ class rod. |  | All |
| Reels | Lever drag multiplier reels  **Metal** framed  Min reel size will be 50W, 80W recommended.  130 class reels may be suitable for chair/rod holder use but not for stand-up technique. | Min of 3 | **Essential:**  (i.e. No fixed spool reels, no ‘star drag’ reels, no non-metal framed multiplier reels) | Reel needs to deliver a min of 30lb of drag smoothly when full, and hold a minimum of 800 yds of mainline or mainline plus topshot | Reduces fight time | All |
| Line – main | Minimum breaking strain 100 lb. Monofilament, gel-spun braided lines, and spectra hollow-core lines can be used.  Recommend hollow core mainline |  |  | Gel spun braided /hollow-core mainline plus a monofilament topshot are recommended as the best combination of control/stretch/cushion.  The small diameter increases line capacity allowing smaller/lighter reels and allows easy replacement of overstretched line. | Optimal drag application will reduce fight times and reduce risk of break off.  High quality line, regularly checked for abrasion will mitigate against ‘break-offs’ | All |
| Line – topshot. | At least 75 yds in length, with min. 100lb breaking strain monofilament line. | Multiple pre-made spare topshots or line to construct them as required (e.g. when nicked/abraded and /or every 4-5 captures). | **Recommended:** a non-stretch, braided main line with a 100-yard topshot of nylon monofilament.  **Essential:**  Both lines must be of a minimum of 100lb breaking strain and the overall length must be at least 800 yards. |  | Monofilament cushion fight, reduces pulled hooks, reduces risk of break off from abrasion.  Is safer to use when at vessel (end of fight). | All |
| Leader | Bait fishing: Min 130lb fluorocarbon or monofilament 8-15ft in length.  Trolling: Min 300lb breaking strain monofilament. Typically 7-10ft |  | **Essential:**  Min breaking strain 130lb mandatory  Min 300lb breaking strain mandatory  400-500lb recommended for large spreader bars | Bait fishing. Fluorocarbon recommended. Replace after every fish. Check frequently for nicks and abrasion  Trolling: Check after each fish and replace if abraded/nicked. Replace line when stretch has been removed (3-4 fish)  Wire traces of any type not permitted. | Reduces break offs and fish loss  Heavier to cushion shock of trolling strike and lure bar induced drag. | Dead bait/circle hooks  Lures |
| Links | High quality ball bearing swivels/snap link swivels.  Deadbaits minimum 250lb  Trolling min breaking strain 350lb | Plenty of spares |  | High quality brands e.g. Mustad, AFW, Pro-rigger, Sampo. | Will reduce break offs |  |
| Hooks - Troll | High quality J-hook.  Single hooks – no double rigging –  9/0 minimum size | Multiple spares and several sizes to ensure no shortfall over the season leading to compromise |  | Corrodible hooks recommended | Corrodible hooks may assist shedding if left in fish | Troll |
| Hooks –  Dead bait fishing | **Inline** circle hooks | Multiple spares and several sizes to ensure no shortfall over the season leading to compromise | **Essential:**  **Inline** circle style essential | Recommend a minimum 20mm ‘gape’ | Barbless may increase lost fish but easier to remove | Dead bait |
| Spreader bars  Lures/daisy chains | No defined manufacturer but essential a robust design/construction template is used. | 2-4 expected to be fished at once. | **Essential for trolling**:  Minimum 8-10 bars and 6-8 lures  **Desirable for trolling:**  10-20 bars and 10-20 lures | Recommend a maximum of five hook carrying bars/lures in pattern at any one time. |  | Troll |
|  | Harness | Appropriate harness for position (e.g. stand-up vs chair).  Stand up harness recommended to be bucket, not shoulder or kidney. Needs large pad size | 1 per angler plus 1 spare  Sized to anglers before hook up.  Skipper has one too so they can take over. | **Essential**:  At least 2 | Harness and fighting gloves may be provided by anglers at skipper’s discretion. | Correct harness design, fit and use can reduce angler fatigue and fight time |  |
|  | Fighting chair  ‘Fighting’ rod holders | If rod holders are to be used for fighting fish they MUST be robust, strongly secured to vessel and should incorporate a swivel unit. |  | **Not essential:** |  | Can reduce fight times but if not fitted or used effectively can INCREASE break off risk. |  |

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| **Experience** | **Item** | **Type/spec stakeholders suggest** | **Number require on each vessel** | **Requirement (essential/ desirable )** | **Advisory/ Additional info** | **Impacts or benefits to fish welfare** |
| Crew and Fish Safety | Leadering/fighting gloves | Specialist gloves as appropriate | One plus a spare set | **Essential:**  (for leadering, desirable for fighting) |  |  |
| Camera monitoring | GOPRO cameras |  | **Voluntary and by observers:** | Cameras for may be provided by the programme but mobile phone cameras can be used | To demonstrate best practice and facilitate training |
|  |  | 1 |  |  |  |
| New fish restraint equipment | Pratiko or similar big game grip |  | **Desirable** | Approx. $500 |  |
| Traditional lip hook | Right design required for a lip hook |  | **Essential** | Specialist equipment – not the same as a gaff. |  |
| Tail lift | Blunt ended shepherds crook | 1 | **Desirable** | Useful for accurate length measurements |  |
| Disgorger | T-bar style and /or appropriate pliers for hook removal recommended |  | **Desirable** | Can be helpful when hook hold allows effective use | Remove hook where possible |
| Rod/reel safety straps | Strong straps/lines with carabiners to attach rod/reel to vessel. | Enough for each rod/reel plus spares | **Essential** |  |  |
| Measuring device | Spec dependent upon vessel selection. |  | **Essential** | Fish measurements are essential for data collection compliance |  |