**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 essentialSwivel 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** framedMin 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 mandatoryMin 300lb breaking strain mandatory400-500lb recommended for large spreader bars | Bait fishing. Fluorocarbon recommended. Replace after every fish. Check frequently for nicks and abrasionTrolling: 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 hooksLures |
| 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 spareSized 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 |  |