**ICES Meeting: Working Group on Recreational Fisheries Surveys (WGRFS)**

Chairs: Estanis Mugerza (AZTI, ES), Kieran Hyder (Cefas, UK)

Hybrid meeting, 19-23 June 2023, Ancona, Italy / Teams

**ToR descriptors**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ToR** | **Description** | **Background** | [**Science Plan codes**](https://ices.dk/about-ICES/Documents/Resolutions/Science_plan_codes.pdf) | **Duration** | **Expected Deliverables** |
| a | Collate and review quality of national estimates of recreational catch and effort, catch-and-release impacts, and socio-economic benefits for candidate stocks, identify significant data gaps in coverage and species, and support the ICES TAF and ecosystem approach. | Most countries are engaged in data collection. This activity collates national participation, catch and socio-economic data sets together, understands the quality of data, and highlights where new data are needed. This is important for supporting the ICES TAF and ecosystem appoach. | 2.1, 3.1, 3.2, 5.4 | Regular activity in each year, with intersessional tasks and workshops to develop new approaches. | Report WG perspectives and publication of scientific papers |
| b | Assess the validity of traditional knowledge, new survey designs, novel methods (e.g. citizen science, apps), innovative statistical methods for data provision, and approaches for selecting appropriate cost-effective methods. | Recreational data can be collected in many ways, with different associated biases. This supports improvement of analysis of existing surveys and understanding the utility of new methods. This will lead to the most robust and broad evidence-base to underpin asessment and advice. | 3.1, 3.2, 3.3, 3.6, 4.1, 4.3, 4.4, 5.4 | Regular activity in each year, with intersessional tasks and workshops to develop new approaches. | Report WG perspectives and publication of scientific papers |
| c | Provide guidance to ICES and respond to ad hoc requests from ACOM on the availability of data, design of data collection programs, data storage systems, use of data in assessments, catch allocation, and ecosystem approach. | Recreational catches are not included in many assessments and data collection is limited to a few species. This activity supports data collection requirements, access to data and methods needed. This will facilitate embedding recreational fisheries into fisheries management.  | 3.1, 3.2, 3.3, 3.5, 3.6, 5,1 | Regular activity in each year, with intersessional tasks and workshops to develop new approaches. | Report WG perspectives and publication of scientific papers |
| d | Develop approaches for regional data collection programmes that generate robust data for end users and support the ICES TAF and ecosystem approach. | Regionalisation is an important goal, but implementation is unclear This is a challenge for recreational fisheries due to the different actors, gears and survey instruments. This will underpin generation of transparent and robust regional data to support end users needs. | 3.1, 3.2, 3.3, 3.6,  | Regular activity in each year, with intersessional tasks and workshops to develop new approaches. | Report WG perspectives and publication of scientific papers |
| e | Evaluate the use of economic (e.g. impact, valuation), social (e.g. governance, behaviour, welfare, health), and communication (e.g. participatory process, messaging) to support the assessment and management of recreational fisheries. | Recreational fisheries have broad benefits and behavioural responses are difficult to predict due to diverse motivations. Hence, understanding of the human dimension is needed. This develops understanding of the data and methods needed for codesign. | 7.1, 7.4, 7.6 | Regular activity in each year, with intersessional tasks and workshops to develop new approaches. | Report WG perspectives and publication of scientific papers |
| f | Review outcomes of the workshops organized by the group.  | Recreational fisheries is a diverse topic, so not all aspects can be adressed at WGRFS. A number of workshops on specific topic have been done or are in the workplan. This reviews outcomes of the workshops and the implications for recreational fisheries. | 5.4, 7.1, 7.4 | Activity-dependent on workshop | Report WG perspectives and publication of scientific papers |

**Summary of the work plan (letter in brackets indicate relevant ToRs)**

|  |  |
| --- | --- |
| Year 1 | 1. Review progress of intersessional groups (i.e. governance, survey design, quality and analysis, regional coordination, data storage, catch-and-release impacts, novel methods, assessment and catch allocation, human dimensions, and communication) and agree approach for the next year. (a, b, c, d, e)
2. Evaluate the quality of up to three national survey programmes using the QAT and provide feedback on tasks requested by ICES. (a, c)
3. Review the outputs from ICES WRGRFS led workshops and discuss next steps for the inclussion of outcomes. (f)
4. Scope data call for ICES based on the formats developed by WGRFS and the RDBES core group. (c, d, f)
5. Assess priorities for inclusion of recreational fisheries in stock assessment using data from the pilot studies. (a, c, d)
6. Develop ICES workshop proposal with WGCATCH for intergrating probabilistic and non-probabilistic surveys. (b)
7. Create ICES workshop proposal to evaluate post-release mortality estimates, potential sublethal effects, and reasonable extrapolations across species and fisheries for inclusion in stock assessments. (a)
8. ~~Assess the potential for food safety and human health issues from consumption of recreational caught fish (e.g. environmental toxins). (e)~~
9. Review and share methods for engaging with stakeholders and the potential for particpatory approaches. (e)
10. Draft a roadmap to increase the inclusion of recreational fisheries data into advisory processe. (c)
 |
| Year 2 | 1. Evaluate the outcomes from the intersessional work and agree approach for the next year. (a, b, c, d, e, f)
2. Review national programmes including assessment of quality of up to three programmes and provide feedback on tasks requested by ICES. (a)
3. Assess the potential of novel survey methods to deliver recreational fisheries data (e.g. citizen science approaches, smartphone apps, traditional knowledge). (b)
4. Develop a framework for allocation of catches between sectors based on a review of existing systems and provide best-practice guidance. (c,d)
5. Develop MSE approaches to assess the impact of uncertainty in recreational catches on assessment and regional sampling programme. (d).
6. Review and share methods for engaging with stakeholders and the potential for particpatory approaches. (e)
7. Assess outcomes of workshop on inclusion of recreational data in stock assessments. (f)
8. Assess the potential for food safety and human health issues from consumption of recreational caught fish (e.g. environmental toxins). (e)
 |
| Year 3 | 1. Review progress of intersessional groups (i.e. governance, survey design, quality and analysis, regional coordination, data storage, catch-and-release impacts, novel methods, assessment and catch allocation, human dimensions, and communication) and agree approach for the next year. (a, b, c, d, e)
2. Evaluate the quality of up to three national survey programmes using the QAT and provide feedback on tasks requested by ICES. (a, c)
3. Review the outputs from ICES WRGRFS led workshops and discuss next steps for the inclussion of outcomes. (f)
4. Collate advances in survey methods that could be used to improved national approaches. (b)
5. Assess the potential for impact of climate change on species caught by recreational fisheries and how that coud impact on DCF and regional species requirements. (c, d)
6. Develop ICES workshop proposal on MSE approaches to assess the impact of uncertainty in recreational catches on assessment and regional sampling programmes. (d).
7. Assess the potential of novel survey methods to deliver recreational fisheries data (e.g. citizen science approaches, smartphone apps, traditional knowledge). (b)
8. Evaluate progress against three year plan and develop new ToRs. (a, b, c, d, e, f)
 |

**Agenda – local time at place of meeting**

| **Session** | **Day** | **Time** | **Topic** | **Lead** |
| --- | --- | --- | --- | --- |
| 1 | 19 Jun | 14:00 | **Welcome:** intros & new ToRs  | Kieran & Estanis |
| 2 |  | 15:00 | **European Commission update (including CFP update)** | Evelien & Leonie |
| 3 |  | 15:30 | **Angling community perspective** | Hannah, David & David |
| 4 |  | 16:00 | **MRF in stock assessment** | Kieran & Zach |
| 5 |  | 17:00 | **RCGs** | Estanis & Harry |
|  |  | 17:30 | **Close** |  |
| 7 | 20 Jun | 09:00 | **QAT:** Survey reviews TBC (T2) |  |
| 8 |  | 12:00 | **Country presentations** | Estanis |
|  |  | 13:00 | **Lunch** |  |
|  |  | 14:30 | Country presentations continue |  |
|  |  | 17:30 | **Close** |  |
| 10 | 21 Jun | 09:30  | **Intersessional groups (ToRs a, b, c, d, e) (T1)** | Kieran & Estanis |
|  |  |  | Breakout for intersessional groups:* Regional coordination & data storage
* Stock assessment & reconstruction
 | Estanis & LuciaZach & Martina |
|  |  | 12:30 | Feedback on outcomes from intersession group discussions (15 mins each) |  |
|  |  | 13:00 | **Lunch** |  |
|  |  | 14:00  | Breakout for intersessional groups:* Catch and release impacts including animal welfare (T3)
* Novel methods to study recreational fisheries
 | SimonChristian |
|  |  | 17:00 | Feedback on outcomes from intersession group discussions (15 mins each) |  |
|  |  | 17:30 | **Close** |  |
|  | 22 Jun | 9:30 | **Intersessional Groups** | Kieran & Estanis |
|  |  |  | Breakout for intersessional groups:* Governance
* Survey methods (T4)
 | Kieran & FabioSteve & Annica |
|  |  | 12:30 | Feedback on outcomes from intersession group discussions (15 mins each) |  |
|  |  | 13:00 | **Lunch** |  |
|  |  | 14:00 | * Quality assessment of surveys
* Human dimensions
* Communication & engagement
 | Pedro & Mafalda Christian, Warren & HarrySean & Pablo |
|  |  | 17:00 | Feedback on outcomes from intersession group discussions (15 mins each) |  |
|  |  | 17:30 | **Close** |  |
|  |  | 19:00 | **Social** |  |
| 11 | 23 Jun | 09:30 | **Updating European estimates** | Kieran & Valerio |
| 12 |  | 10:30 | **Publications** | Kieran & Estanis |
| 13 |  | 11:30 | **Date & venue of next meeting** | Kieran & Estanis |
|  |  | 12:00 | **Close** |  |