# Theme Session K: Small-scale and recreational fisheries surveys, assessment, and management

*Conveners: Jon Helge Vølstad (Norway), Dave Van Vorhees (USA), and Patrick Berthou (France)*

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<th>Code</th>
<th>Authors, Title and Keywords</th>
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| K:01 | **Authors:** B. Morales-Nin and M. Palmer  
**Title:** Managing coastal zone fisheries: interactions between small-scale and recreational activities  
**Keywords:** |
| K:02 | **Author:** Psuty Iwona  
**Title:** Trust and check. An individual approach to small-scale fishery sampling from the Polish brackish lagoons (Southern Baltic)  
**Keywords:** self-sampling, fykenet, Polish coastal fishery, fish measurements |
| K:03 | **Authors:** Johanna Herfaut, Harold Levrel, Olivier Thébaud, Hervé Tranger, Patrick Berthou, Bruno Drouot, Christian Dintheer, Olivier Guyader, Yvon Morizur  
**Title:** Combining telephone and on-site surveys for the estimation of catches and expenditures by recreational fishermen: the pilot survey of French recreational fisheries  
**Keywords:** recreational fishing, survey methodology, catch and effort assessment, economic impact |
| K:04 | **PowerPoint Presentation**  
**Authors:** Bruce Hartill, Richard Bian, and Tim Watson  
**Title:** Use of aerial surveys to scale up observed harvests  
**Keywords:** |
| K:05 | **Authors:** J. H. Vølstad, P. Santana Afonso, A.P. Baloi, N. de Premegi, and J. Meisfjord  
**Title:** Probability-based survey techniques for monitoring catch and effort in the Coastal small-scale fisheries in Mozambique  
**Keywords:** |
| K:06 | **Authors:** Han Lin-Lai and Rob Andrews  
**Title:** Development of a dual-frame methodology for estimating marine recreational fishing effort  
**Keywords:** Survey, sampling, dual-frame, sample frame, estimation |
| K:07 | **Author:** Jeremy M. Lyle  
**Title:** Application of a telephone-diary methodology to estimate catch and effort in recreational fisheries: examples from Australia  
**Keywords:** recreational fishing, off-site survey methods, telephone survey, diary survey, non-response, recreational catch and effort |
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| K:08 | **Authors**: Ita Widowati, Jusup Suprijanto, Indah Susilowati, Tri Winarni Agustini, and Amin Budi Raharjo  
**Title**: Small-scale fisheries of the Asian Moon Scallop *Amusium pleuronectes* in the Brebes Coast, Central Java, Indonesia  
**Keywords**: *Amusium pleuronectes*, Asian Moon Scallop, small-scale fisheries |
| K:09 | **Authors**: Olivier Guyader, Sébastien Demaneche, and Patrick Berthou  
**Title**: Fuel consumption as a proxy for the assessment of nominal effort and variable costs: application to the French West Indies small-scale fleets  
**Keywords**: |
| K:10 | **Authors**: Fabienne Daures, Sylvie Van Iseghem, Sébastien Demaneche, Cécile Brigaudeau, Olivier Guyader, Emilie Leblond, and Patrick Berthou  
**Title**: Re-assessing French small-scale fisheries: from fleet activity to economic performance  
**Keywords**: Data collection, sampling schemes, economic data, indicator, revenue model, small-scale fisheries. |
| K:11 | **Authors**: Fabienne Daurès, Emilie Leblond, Patrick Berthou, Christian Dintheer, Claude Merrien, Alain Tétard, Joël Vigneau, and Patrick Lespagnol  
**Title**: The Fisheries Information System of Ifremer – a multidisciplinary monitoring network and an integrated approach for the assessment of French fisheries, including small-scale fisheries  
**Keywords**: information system, fisheries, fishing fleet, indicators, integrated database, small-scale |
| K:12 | **Authors**: Patrick Berthou, Fabienne Daures, Emilie Leblond, Claude Merrien, Sebastien Demaneche, Olivier Guyader, and Patrick Lespagnol  
**Title**: From fleet census to sampling schemes: an original collection of data on fishing activity for the assessment of the French fisheries  
**Keywords**: fleet, métier, fishing activity, small-scale fisheries, fleet typology |
| K:13 | **Authors**: Gary J. Burt, Louise P. N. Cox, Jim R. Ellis, Dave W. Kulka, and Andrew I. L. Payne  
**Title**: The status and management of thornback ray *Raja clavata* in the south-western North Sea  
**Keywords**: discard survival, North Sea, Rajidae, skates |
| K:14 | **Authors**: Sébastien Demaneche, Claude Merrien, Olivier Guyader, Emilie Leblond, Fabienne Daures, and Patrick Berthou  
**Title**: A new approach to estimate catches and fishing effort of small scale fisheries by sampling fishing on-site  
**Keywords**: catches and fishing effort estimation, sampling schemes, extrapolation, annual activity calendars |
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| K:15 | **Authors**: D. Feijó, A. Rocha, P. Santos, and F. Saborido-Rey  
**Title**: Statistical species characterization of Gurnard Landings in North of Portugal  
**Keywords**: Gurnards, Fishery Assessment, Fish Stocks, Sampling and Statistics. |
| K:16 | **Authors**: T. Romeo, F. Ferretti, P. Consoli, S. Canese, and F. Andaloro  
**Title**: Assessment of the Mediterranean swordfish based on Italian harpoon fisheries data  
**Keywords**: |
| K:17 | **Authors**: Michael Wilberg, Thomas Ihde, Thomas Miller, and David Secor  
**Title**: Enhancing sustainability in marine recreational fisheries: a stakeholder-driven process for evaluating angling practices and management options for king mackerel in the US  
**Keywords**: decision analysis, *Scomberomorus cavalla*, recreational fisheries management, stakeholder participation |
| K:18 | **Authors**: Otte Bjelland and Irene Huse  
**Title**: Self-sampling as a method for collecting assessment data from a small-scale fishery – the Norwegian gillnetting for anglerfish  
**Keywords**: |
| K:19 | **Authors**: N. Prista, C. M. Jones, J. L. Costa, and M. J. Costa  
**Title**: Extracting fish movement information using landings and effort information of the small-scale *Argyrosomus regius* fishery in Portugal  
**Keywords**: small-scale artisanal fisheries, fisheries landings, time-series analysis, fishing effort, target effort, meagre. |
| K:20 | **Authors**: Thomas R. Sminkey, Dave Van Voorhees, Rob Andrews, Ron Salz, John Foster, and Han-Lin Lai  
**Title**: For-Hire Survey of Marine Recreational Fishing in the Gulf of Mexico  
**Keywords**: |
**Title**: The Marine Recreational Fishery Statistics Survey – complex sampling and possible estimation biases  
**Keywords**: |
| K:22 | **Authors**: John Foster, Ron Salz, Thomas R. Sminkey, Dave Van Voorhees, Rob Andrews, and Han-Lin Lai  
**Title**: Large Pelagics Survey: Methodology, data uses, and statistical issues  
**Keywords**: |
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| K:24 | **Authors**: Christopher Zimmermann, Norbert Schultz, and Cornelius Hammer  
**Title**: How much cod is removed from the Western Baltic Sea by recreational fishers?  
**Keywords**: |
| K:25 | **Authors**: Jon Helge Vølstad, Merete Nilsen, Michael Pennington, and Kjell Nedreaas  
**Title**: Survey sampling on a shoestring – effective methods to monitor catch and effort in the Norwegian coastal tourist fishery.  
**Keywords**: |